

Resistors & potentiometers

Top brands



0603 surface mount resistors	648
0805 surface mount resistors	648
1206 surface mount resistors	650
Carbon composition resistors	651
Carbon film resistors	652
Low ohmic resistors	657
Metal film resistors	653
Potentiometers	661
Power resistors	658
Preset potentiometers	664
Resistor arrays	650

Associated products

ARCOL

Aluminium clad wirewound resistors

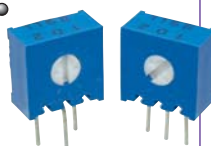


From **£0.62** See page 659

TruOhm

See page 667

3/8in Single turn vertically mounted potentiometer



From **£0.2512**

TruOhm

CR25 Carbon film resistor kits



From **£7.50** See page 652

TruOhm

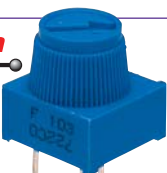
MR25 Metal film resistor kit



From **£7.50** See page 655

TruOhm

3/8in Single turn finger adjustable potentiometer



See page 666

From **£0.3837**

0.4W 0.1% 15ppm Precision metal film resistors

VISHAY



From **£0.14** See page 654

0603 Surface mount resistors



0603 1% Chip resistors

High stability, close tolerance, thick film resistors in the industry standard 0603 package.

- Excellent solderability
- Compatible with both flow and reflow soldering
- Individually marked with 4 digit resistance code
- Supplied on **8mm tape** - packs of **100** or on full reels of **5000 pcs**



Technical specification	
Power rating	70°C 0.063W
Resistance tolerance	±1%
Temperature coefficient	±100ppm/°C
Operating voltage	50V rms max
Insulation resistance	>1000MΩ
Temperature range	-55°C to +125°C
Dimensions	1.60 x 0.85 x 0.3mm

Pack of 100							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R	72-9000	20R	72-9010	33R	72-9020	62R	72-9034
12R	72-9002	22R	72-9012	39R	72-9024	68R	72-9036
13R	72-9004	24R	72-9014	43R	72-9026	75R	72-9038
15R	72-9006	27R	72-9016	47R	72-9028	91R	72-9042
18R	72-9008	30R	72-9018	51R	72-9030		

100R-910R							
100R	72-9044	160R	72-9054	300R	72-9066	680R	72-9084
110R	72-9046	180R	72-9056	330R	72-9068	750R	72-9086
120R	72-9048	200R	72-9058	390R	72-9072	820R	72-9088
130R	72-9050	220R	72-9060	470R	72-9076	910R	72-9090
150R	72-9052	270R	72-9064	560R	72-9080		

1K-9K1							
1K	72-9092	1K8	72-9104	3K3	72-9116	6K2	72-9130
1K2	72-9096	2K	72-9106	4K3	72-9122	7K5	72-9134
1K3	72-9098	2K2	72-9108	4K7	72-9124	8K2	72-9136
1K5	72-9100	2K4	72-9110	5K1	72-9126	9K1	72-9138
1K6	72-9102	2K7	72-9112	5K6	72-9128		

10K-91K							
10K	72-9140	16K	72-9150	36K	72-9166	56K	72-9176
11K	72-9142	18K	72-9152	33K	72-9164	68K	72-9180
12K	72-9144	22K	72-9156	39K	72-9168	75K	72-9182
13K	72-9146	27K	72-9160	47K	72-9172	82K	72-9184
15K	72-9148	30K	72-9162	51K	72-9174	91K	72-9186

100K-1M							
100K	72-9188	200K	72-9202	330K	72-9212	470K	72-9220
110K	72-9190	220K	72-9204	360K	72-9214	560K	72-9224
120K	72-9192	240K	72-9206	390K	72-9216	820K	72-9232
150K	72-9196	270K	72-9208	430K	72-9218	1M	72-9236
180K	72-9200	300K	72-9210				

Pack of 100				
Order code	1+	5+	10+	
ALL CODES	0.39	0.28	0.24	

Reel of 5000							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R	72-9240	22R	72-9252	36R	72-9262	56R	72-9266
13R	72-9244	24R	72-9254	39R	72-9264	62R	72-9268
15R	72-9246	27R	72-9256	43R	72-9268	68R	72-9270
18R	72-9248	30R	72-9258	47R	72-9282	75R	72-9272
20R	72-9250	33R	72-9260	51R	72-9484	82R	72-9274

100R-910R							
100R	72-9278	180R	72-9290	330R	72-9302	560R	72-9314
110R	72-9280	200R	72-9292	360R	72-9304	620R	72-9316
120R	72-9282	220R	72-9294	390R	72-9306	680R	72-9318
130R	72-9284	240R	72-9296	430R	72-9308	750R	72-9320
150R	72-9286	270R	72-9298	470R	72-9310	820R	72-9322
160R	72-9288	300R	72-9300				

1K-9K1							
1K	72-9326	1K8	72-9338	3K3	72-9350	6K2	72-9364
1K1	72-9328	2K	72-9340	3K9	72-9354	6K8	72-9366
1K2	72-9330	2K2	72-9342	4K7	72-9358	7K5	72-9368
1K3	72-9332	2K7	72-9346	5K1	72-9360	8K2	72-9370
1K5	72-9334	3K	72-9348	5K6	72-9362	9K1	72-9372
1K6	72-9336						

10K-91K							
10K	72-9374	18K	72-9386	30K	72-9396	51K	72-9412
12K	72-9378	20K	72-9388	33K	72-9398	56K	72-9414
13K	72-9380	22K	72-9390	36K	72-9400	68K	72-9418
15K	72-9382	24K	72-9392	39K	72-9402	75K	72-9416
16K	72-9384	27K	72-9394	47K	72-9410	82K	72-9422

100K-1M							
100K	72-9426	200K	72-9440	330K	72-9450	560K	72-9462
120K	72-9430	220K	72-9442	360K	72-9452	680K	72-9466
130K	72-9432	240K	72-9444	390K	72-9454	910K	72-9472
150K	72-9434	270K	72-9446	430K	72-9456	1M	72-9474
160K	72-9436	300K	72-9448	470K	72-9458		

Reel of 5000				
Order code	1+	5+	10+	
ALL CODES	9.19	8.38	7.50	



0603 5% Chip resistors

High stability thick film resistors in the industry standard 0603 package.

- Excellent solderability
- Compatible with both flow and reflow soldering
- Individually marked with 3 digit resistance code
- A matching zero ohm part is available
- Supplied on **8mm tape** in packs of **100** or on reels of **5000**



Technical specification	
Power rating	0.063W
Resistance tolerance	±5%
Temperature tolerance	±200ppm/°C
Operating voltage	50V rms max
Insulation resistance	>1000MΩ
Temperature range	-55°C to +125°C
Dimensions	1.60 x 0.85 x 0.3mm

Pack of 100							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

15R	72-6702	39R	72-6708	62R	72-6716	82R	72-6722
33R	72-6706	47R	72-6710	75R	72-6720	91R	72-6724

100R-910R							
100R	72-6726	180R	72-6738	330R	72-6750	560R	72-6762
110R	72-6728	200R	72-6740	360R	72-6752	620R	72-6764
120R	72-6730	220R	72-6742	430R	72-6756	680R	72-6766
130R	72-6732	240R	72-6744	470R	72-6758	820R	72-6770
150R	72-6734	270R	72-6746	510R	72-6760	910R	72-6772
160R	72-6736						

1K-9K1							
1K	72-6774	1K8	72-6786	3K	72-6796	6K2	72-6812
1K1	72-6776	2K	72-6798	3K6	72-6800	6K8	72-6814
1K2	72-6778	2K2	72-6782	4K3	72-6804	8K2	72-6818
1K3	72-6780	2K4	72-6792	4K7	72-6806	9K1	72-6820
1K6	72-6784	2K7	72-6794	5K6	72-6810		

10K-91K							
10K	72-6822	22K	72-6838	36K	72-6848	62K	72-6860
11K	72-6824	24K	72-6840	39K	72-6850	68K	72-6862
12K	72-6826	27K	72-6842	43K	72-6852	75K	72-6864
13K	72-6828	30K	72-6844	51K	72-6856	91K	72-6868
16K	72-6832	33K	72-6846	56K	72-6858		

100K-910K							
100K	72-6870	200K	72-6884	360K	72-6896	620K	72-6908
110K	72-6872	220K	72-6886	390K	72-6898	680K	72-6910
130K	72-6876	240K	72-6888	430K	72-6900	750K	72-6912
150K	72-6878	270K	72-6890	470K	72-6902	820K	72-6914
160K	72-6880	300K	72-6892	510K	72-6904	910K	72-6916
180K	72-6882	330K	72-6894				

1M-10M							
1M	72-6918	2M2	72-6920	3M3	72-6922	10M	72-6926

Pack of 100				
Order code	1+	5+	10+	
ALL CODES	0.22	0.16	0.14	

Reel of 5000							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R	72-6950	39R	72-6958	62R	72-6966	75R	72-6970
15R	72-6952	47R	72-6960	68R	72-6968	91R	72-6974
22R	72-6954						

100R-910R							
100R	72-6976	180R	72-6988	330R	72-7000	560R	72-7012
110R	72-6978	220R	72-6992	390R	72-7004	680R	72-7016
120R	72-6980	240R	72-6994	470R	72-7008	820R	72-7020
150R	72-6984	270R	72-6996	510R	72-7010		

1K-9K1							
1K	72-7024	1K8	72-7036	3K3	72-7048	5K6	72-7060
1K2	72-7028	2K	72-7038	3K9	72-7052	6K8	72-7070
1K3	72-7030	2K2	72-7040	4K7	72-7056	8K2	72-7068
1K5	72-7032	3K	72-7046	5K1	72-7058		

10K-91K							
10K	72-7072	22K	72-7088	30K	72-7094	47K	72-7104
12K	72-7076	27K	72-7092	33K	72-7096	56K	72-7108
15K	72-7080						

100K-910K							
100K	72-7120	220K	72-7136	270K	72-7140	680K	72-7160
110K	72-7122	240K	72-7138	470K	72-7152		



0603 Zero Ohm chip jumpers

Surface mount, thick film, zero ohm jumper links in industry standard 0603 package.

- Suitable for wave and reflow soldering
- Coloured blue to aid identification
- Supplied on **8mm tape** in packs of **100** or on reels of **5000**



Technical specification	
Resistance	<50mΩ
Current rating	1A
Temperature range	-55°C to +125°C
Dimensions	1.60 x 0.85 x 0.3mm

Reel of 1000							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100R-680R							
100R	71-2720	158R	71-2728	232R	71-2735	392R	71-2742
102R	71-2721	178R	71-2729	267R	71-2736	475R	71-2743
105R	71-2722	182R	71-2730	270R	71-2737	499R	71-2744
107R	71-2723	200R	71-2731	274R	71-2738	511R	71-2745
118R	71-2724	205R	71-2732	301R	71-2739	590R	71-2746
121R	71-2725	221R	71-2733	348R	71-2740	604R	71-2747
140R	71-2726	221R	71-2734	374R	71-2741	680R	71-2748
150R	71-2727						
1K-9K53							
1K	71-2749	1K54	71-2758	3K32	71-2768	5K9	71-2778
1K02	71-2750	1K69	71-2759	3K9	71-2769	6K65	71-2780
1K05	71-2751	1K8	71-2760	4K64	71-2770	6K8	71-2781
1K1	71-2752	1K82	71-2761	4K75	71-2772	8K06	71-2782
1K13	71-2753	2K2	71-2763	4K87	71-2773	8K25	71-2783
1K18	71-2754	2K55	71-2764	4K99	71-2774	9K09	71-2784
1K21	71-2755	2K7	71-2765	5K11	71-2775	9K53	71-2785
1K3	71-2756	3K01	71-2766	5K49	71-2776		
1K47	71-2757	3K3	71-2767	5K76	71-2777		
10K-100K							
10K2	71-2786	18K2	71-2797	30K1	71-2807	56K	71-2820
10K7	71-2787	20K	71-2798	31K6	71-2808	57K6	71-2821
11K	71-2788	20K5	71-2799	33K	71-2809	60K4	71-2822
11K5	71-2789	21K5	71-2800	39K	71-2811	68K1	71-2823
12K1	71-2791	22K	71-2801	39K2	71-2812	73K2	71-2824
12K7	71-2792	22K1	71-2802	40K2	71-2813	80K6	71-2825
13K3	71-2793	23K7	71-2803	47K	71-2814	82K	71-2826
14K7	71-2794	24K9	71-2804	48K7	71-2816	82K5	71-2827
15K	71-2795	26K7	71-2805	51K1	71-2818	100K	71-2828
18K	71-2796	27K4	71-2806	54K9	71-2819		
		Order code	1+	5+	10+		
Reel of 1000		ALL CODES	295.00	260.00	255.00		



0805 1% Chip resistors

High stability, close tolerance, thick film resistors in the industry standard 0805 package. The multiple layer electrode construction with nickel barrier termination prevents leaching and offers excellent solderability.

- Compatible with both flow and reflow soldering
- Individually marked with 4 digit resistance code
- Supplied on 8mm tape in packs of 100 or on reels of 5000



Technical specification	
Power rating	0.1W
Resistance tolerance	±1%
Temperature coefficient	>100ppm/°C
Operating voltage	100V rms max.
Insulation resistance	>1000MΩ
Temperature range	-55°C to +125°C
Dimensions	2.05 x 1.25 x 0.5mm

Pack of 100							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
0R-91R							
0R	72-0502	18R	72-0515	33R	72-0522	51R	72-0562
10R	72-0507	20R	72-0516	36R	72-0527	56R	72-0567
13R	72-0511	22R	72-0517	39R	72-0535	75R	72-0578
15R	72-0512	24R	72-0520	47R	72-0557	82R	72-0582
100R-910R							
100R	72-0590	200R	72-0610	330R	72-0647	560R	72-0777
110R	72-0594	220R	72-0627	390R	72-0652	680R	72-0782
120R	72-0600	240R	72-0630	430R	72-0660	750R	72-0785
150R	72-0602	270R	72-0635	470R	72-0667	820R	72-0789
180R	72-0607	300R	72-0640	510R	72-0670		
1K-9K1							
1K	72-0797	2K	72-0814	3K9	72-0832	6K2	72-0852
1K2	72-0802	2K2	72-0817	4K3	72-0834	6K8	72-0857
1K3	72-0805	2K4	72-0820	4K7	72-0837	7K5	72-0860
1K5	72-0807	2K7	72-0822	5K1	72-0842	8K2	72-0862
1K6	72-0810	3K	72-0824	5K6	72-0847	9K1	72-0864
1K8	72-0812	3K3	72-0827				
10K-91K							
10K	72-0867	20K	72-0900	33K	72-0927	51K	72-0950
11K	72-0870	22K	72-0907	39K	72-0938	56K	72-0957
12K	72-0875	24K	72-0913	43K	72-0942	68K	72-0967
15K	72-0887	27K	72-0917	47K	72-0947	82K	72-0972
18K	72-0895	30K	72-0920				

100K-1M							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100K	72-0977	200K	72-1010	330K	72-1037	680K	72-1067
110K	72-0980	220K	72-1017	390K	72-1045	820K	72-1072
120K	72-0985	240K	72-1020	470K	72-1057	910K	72-1074
150K	72-0997	270K	72-1025	510K	72-1060	1M	72-1077
180K	72-1005	300K	72-1030	560K	72-1062		
		Order code	1+	5+	10+		
Pack of 100		ALL CODES	0.46	0.33	0.29		

Reel of 5000							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R-91R							
10R	72-0509	20R	72-0523	39R	72-0540	68R	72-0576
12R	72-0506	22R	72-0519	43R	72-0550	75R	72-0580
13R	72-0508	24R	72-0528	47R	72-0559	82R	72-0584
15R	72-0514	33R	72-0524	51R	72-0564	91R	72-0588
18R	72-0518	36R	72-0530	56R	72-0569		
100R-910R							
100R	72-0592	200R	72-0615	330R	72-0649	680R	72-0784
110R	72-0596	220R	72-0629	390R	72-0654	750R	72-0787
120R	72-0603	240R	72-0632	470R	72-0669	820R	72-0791
150R	72-0604	270R	72-0637	510R	72-0675	910R	72-0794
180R	72-0609	300R	72-0645	560R	72-0779		
1K-9K1							
1K	72-0799	1K8	72-0813	3K3	72-0829	5K6	72-0850
1K1	72-0801	2K	72-0815	3K9	72-0833	6K8	72-0859
1K2	72-0804	2K2	72-0819	4K3	72-0835	7K5	72-0861
1K3	72-0806	2K4	72-0821	4K7	72-0839	8K2	72-0863
1K5	72-0809	2K7	72-0823	5K1	72-0845	9K1	72-0865
1K6	72-0811	3K	72-0825				
10K-91K							
10K	72-0869	18K	72-0897	30K	72-0925	47K	72-0949
11K	72-0872	20K	72-0905	33K	72-0929	51K	72-0955
12K	72-0877	22K	72-0911	36K	72-0935	56K	72-0959
15K	72-0889	24K	72-0915	39K	72-0940	68K	72-0969
16K	72-0892	27K	72-0919	43K	72-0945	82K	72-0973
		Order code	1+	5+	10+		
Reel of 5000		ALL CODES	12.13	11.00	10.00		

100K-1M							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100K	72-0979	180K	72-1007	300K	72-1035	560K	72-1063
110K	72-0982	200K	72-1015	330K	72-1039	620K	72-1066
120K	72-0987	220K	72-1019	390K	72-1048	680K	72-1069
130K	72-0995	240K	72-1022	470K	72-1059	820K	72-1073
150K	72-0999	270K	72-1027	510K	72-1061	1M	72-1079
160K	72-1002						
		Order code	1+	5+	10+		
Reel of 5000		ALL CODES	12.13	11.00	10.00		

100K-1M							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100R-910R							
100R	72-0592	200R	72-0615	330R	72-0649	680R	72-0784
110R	72-0596	220R	72-0629	390R	72-0654	750R	72-0787
120R	72-0603	240R	72-0632	470R	72-0669	820R	72-0791
150R	72-0604	270R	72-0637	510R	72-0675	910R	72-0794
180R	72-0609	300R	72-0645	560R	72-0779		
1K-9K1							
1K	72-0799	1K8	72-0813	3K3	72-0829	5K6	72-0850
1K1	72-0801	2K	72-0815	3K9	72-0833	6K8	72-0859
1K2	72-0804	2K2	72-0819	4K3	72-0835	7K5	72-0861
1K3	72-0806	2K4	72-0821	4K7	72-0839	8K2	72-0863
1K5	72-0809	2K7	72-0823	5K1	72-0845	9K1	72-0865
1K6	72-0811	3K	72-0825				
10K-91K							
10K	72-0869	18K	72-0897	30K	72-0925	47K	72-0949
11K	72-0872	20K	72-0905	33K	72-0929	51K	72-0955
12K	72-0877	22K	72-0911	36K	72-0935	56K	72-0959
15K	72-0889	24K	72-0915	39K	72-0940	68K	72-0969
16K	72-0892	27K	72-0919	43K	72-0945	82K	72-0973
		Order code	1+	5+	10+		
Reel of 5000		ALL CODES	12.13	11.00	10.00		

100K-1M							
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100R-910R							
100R	72-0592	200R	72-0610	330R	72-0647	560R	72-0777
110R	72-0594	220R	72-0627	390R	72-0652	680R	72-0782
120R	72-0600	240R	72-0630	430R	72-0660	750R	72-0785
150R	72-0602	270R	72-0635	470R	72-0667	820R	72-0789
180R	72-0607	300R	72-0640	510R	72-0670		
1K-9K1							
1K	72-0797	2K	72-0814	3K9	72-0832	6K2	72-0852
1K2	72-0802	2K2	72-08				

1206 Surface mount resistors

TruOhm

1206 1% Chip resistors

High stability, close tolerance, thick film resistors in the industry standard 1206 package. The multiple layer electrode construction with nickel barrier termination prevents leaking and offers excellent solderability.

- Individually marked with 4 digit resistance code
- Supplied on 8mm tape in packs of 100 or on full reels of 5000



Technical specification	
Power rating at 70°C	0.25W
Resistance tolerance	±1%
Temperature coefficient	±100ppm
Operating voltage	200V rms max.
Insulation resistance	>1000MΩ at 500V
Temperature range	-55°C to +125°C
Dimensions (mm)	3.1 x 1.6 x 0.5

Pack of 100		Pack of 100		Pack of 100		Pack of 100	
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R-820R		10R-820R		10R-820R		10R-820R	
10R	72-2507	33R	72-2227	100R	72-2597	330R	72-2647
12R	72-2222	39R	72-2228	120R	72-2231	390R	72-2235
15R	72-2223	47R	72-2557	150R	72-2232	470R	72-2667
18R	72-2224	56R	72-2567	180R	72-2233	560R	72-2777
22R	72-2225	68R	72-2229	220R	72-2627	680R	72-2236
27R	72-2226	82R	72-2230	270R	72-2234	820R	72-2237

1K-1M		1K-1M		1K-1M		1K-1M	
1K	72-2797	6K8	72-2243	47K	72-2947	330K	72-2258
1K2	72-2238	8K2	72-2244	56K	72-2250	390K	72-2259
1K5	72-2807	10K	72-2867	68K	72-2251	470K	72-2260
1K8	72-2239	12K	72-2245	82K	72-2252	560K	72-2261
2K2	72-2817	15K	72-2246	100K	72-2977	680K	72-2262
2K7	72-2240	18K	72-2247	120K	72-2253	820K	72-2263
3K3	72-2827	22K	72-2907	150K	72-2254	1M	72-3077
3K9	72-2241	27K	72-2248	180K	72-2255		
4K7	72-2837	33K	72-2927	220K	72-2256		
5K6	72-2242	39K	72-2249	270K	72-2257		

Order code		1+	5+	10+
Pack of 100	ALL CODES	0.63	0.45	0.39

Reel of 5000		Reel of 5000		Reel of 5000		Reel of 5000	
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10R-820R		10R-820R		10R-820R		10R-820R	
10R	72-2509	39R	72-2186	120R	72-2189	390R	72-2193
12R	72-2180	47R	72-2559	150R	72-2190	470R	72-2669
18R	72-2182	56R	72-2569	180R	72-2191	560R	72-2779
22R	72-2183	68R	72-2187	220R	72-2629	680R	72-2194
27R	72-2184	82R	72-2188	270R	72-2192	820R	72-2195
33R	72-2185	100R	72-2599	330R	72-2649		

1K-1M		1K-1M		1K-1M		1K-1M	
1K	72-2799	6K8	72-2201	39K	72-2207	330K	72-2216
1K2	72-2196	8K2	72-2202	47K	72-2949	390K	72-2217
1K5	72-2809	10K	72-2869	68K	72-2210	470K	72-2218
1K8	72-2197	12K	72-2203	100K	72-2979	560K	72-2219
2K2	72-2819	15K	72-2889	120K	72-2211	820K	72-2221
2K7	72-2198	18K	72-2205	150K	72-2212	1M	72-3079
3K3	72-2829	22K	72-2909	180K	72-2213		
4K7	72-2839	27K	72-2206	220K	72-2214		
5K6	72-2200	33K	72-2929	270K	72-2215		

Order code		1+	5+	10+
Reel of 5000	ALL CODES	16.50	14.88	13.75

TruOhm

1206 5% Chip resistors

High stability, thick film resistors in the industry standard 1206 package. The multiple layer electrode construction with nickel barrier termination prevents leaching and offers excellent solderability.

- Compatible with both flow and reflow soldering
- Individually marked with 3 digit resistance code



- Supplied on 8mm tape in packs of 100 or on reels of 5000

Technical specification	
Power rating	0.25W
Resistance tolerance	±5%
Temperature coefficient	±200ppm/°C
Operating voltage	200V rms max.
Insulation resistance	>10MΩ min.
Temperature Range	-55°C to +125°C
Dimensions	3.1±0.1 x 1.6±0.1 x 0.5±0.25mm

Pack of 100		Pack of 100		Pack of 100		Pack of 100	
-------------	--	-------------	--	-------------	--	-------------	--

OR-820R		OR-820R		OR-820R		OR-820R	
OR	72-1207	39R	72-2290	120R	72-2295	390R	72-1292
10R	72-1217	47R	72-2291	150R	72-2296	470R	72-1297
15R	72-2287	56R	72-2292	180R	72-1272	560R	72-1302
22R	72-2228	68R	72-2293	220R	72-2297	680R	72-1307
27R	72-2289	82R	72-2294	270R	72-2298	820R	72-2299
33R	72-1232	100R	72-1262	330R	72-1287		

1K-10M		1K-10M		1K-10M		1K-10M	
1K	72-1317	3K9	72-2303	27K	72-2305	220K	72-1457
1K2	72-2300	4K7	72-1357	33K	72-1407	330K	72-2308
1K5	72-1327	6K8	72-1367	39K	72-2306	390K	72-2309
1K8	72-2301	10K	72-1377	47K	72-1417	470K	72-1477
2K2	72-1337	15K	72-1387	56K	72-2307	680K	72-1487
2K7	72-2302	18K	72-2304	68K	72-1427	1M	72-1497
3K3	72-1347	22K	72-1397	100K	72-1437	2M2	72-1512

Order code		1+	5+	10+
Pack of 100	ALL CODES	0.46	0.33	0.29

Reel of 5000		Reel of 5000		Reel of 5000		Reel of 5000	
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OR-820R		OR-820R		OR-820R		OR-820R	
OR	72-1209	47R	72-2268	150R	72-1269	390R	72-1294
10R	72-1219	56R	72-2269	180R	72-1274	470R	72-1299
15R	72-1224	68R	72-2270	220R	72-2274	560R	72-1304
27R	72-2266	82R	72-2271	270R	72-2275	680R	72-1309
33R	72-1234	100R	72-1264	330R	72-1289	820R	72-2276
39R	72-2267	120R	72-2272				

1K-10M		1K-10M		1K-10M		1K-10M	
1K	72-1319	4K7	72-1359	33K	72-1409	390K	72-2286
1K2	72-2277	6K8	72-1369	39K	72-2283	470K	72-1479
1K5	72-1329	10K	72-1379	47K	72-1419	680K	72-1489
2K2	72-1339	15K	72-1389	56K	72-2284	1M	72-1499
2K7	72-2279	18K	72-2281	100K	72-1439	2M2	72-1514
3K3	72-1349	22K	72-1399	330K	72-2285	10M	72-1544
3K9	72-2280						

Order code		1+	5+	10+
Reel of 5000	ALL CODES	12.13	11.00	10.00

Resistor arrays

Yageo

1206 Chip resistor networks

Thick film chip resistor arrays housed in the industry standard 1206 package. The arrays consist of 4 isolated 0603 size resistors and can significantly reduce board area allocation.

- Convex connections with package layer design which prevents tombstoning when reflow soldering the device
- **Yageo YC16 series**
- Supplied on 8mm tape in small quantities or on reels of 5000

Technical specification	
Dimensions	3.2 x 1.6 x 0.6mm
Power rating	0.063W per resistors @ 70°C
	0.25W per package @ 70°C
Resistance tolerance	±5%
Temperature coefficient	± 200ppm/°C
Temperature range	-55°C to +125°C
Max. working voltage	50V DC
Marking	3 digit (e.g. 1K=102, 100K=104)

8mm Tape in small quantities		8mm Tape in small quantities		8mm Tape in small quantities		8mm Tape in small quantities	
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22R-470R		22R-470R		22R-470R		22R-470R	
22R	63-1900	47R	63-1904	150R	63-1908	330R	63-1912
33R	63-1902	100R	63-1906	220R	63-1910		

Order code		1+	100+	1000+
Small quantities	ALL CODES	0.05	0.02	0.015

Reel of 5000		Reel of 5000		Reel of 5000		Reel of 5000	
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
22R	63-1880	47R	63-1882	150R	63-1884	330R	63-1886
33R	63-1881	100R	63-1883	220R	63-1885	470R	63-1887

1K-1M		1K-1M		1K-1M		1K-1M	
1K	63-1888	3K3	63-1890	10K	63-1892	100K	63-1895
2K2	63-1889	4K7	63-1891	47K	63-1894	1M	63-1896

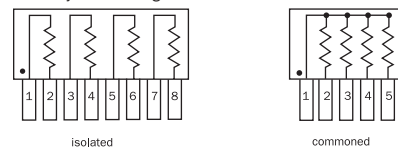
Order code		1+
Reel of 5000	ALL CODES	36.25

TruOhm

SIL Resistor networks

Thick film resistor networks housed in single in line, low profile packages coated with a special epoxy resin. Metal glaze elements on a ceramic substrate.

- Available in isolated or commoned resistor styles
- Suitable for use in high density circuit design



Technical specification	
Power rating	0.125W per resistor (commoned resistor)
	0.2W per resistor (isolated resistor)
Resistance tolerance	±2%
Temperature coefficient	±100ppm/°C
Max. working voltage	100V
Operating temperature range	-55°C to +125°C
Dimensions:	Height 5.2mm
	Width 2.5mm
	Pitch 2.54mm
	No. of pins 5
	Length max 12.7, 15.3, 20.4, 22.9, 25.4

type	Order code	1+	100+	1000+	5000+
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4-isolated resistors (8-pin)					
47R	63-0010	0.13	0.0742	0.0456	0.0329
100R	63-0015	0.13	0.0742	0.0456	0.0329
220R	63-0020	0.13	0.0742	0.0456	0.0329
330R	63-0025	0.13	0.0742	0.0456	0.0329
470R	63-0030	0.13	0.0742	0.0456	0.0329
1K	63-0035	0.10	0.053	0.0371	0.0265
2K2	63-0040	0.13	0.0742	0.0456	0.0329
3K3	63-0045	0.13	0.0742	0.0456	0.0329
4K7	63-0050	0.13	0.0742	0.0456	0.0329
10K	63-0055	0.10	0.053	0.0371	0.0265
22K	63-0060	0.13	0.0742	0.0456	0.0329
47K	63-0065	0.13	0.0742	0.0456	0.0329
100K	63-0070	0.10	0.053	0.0371	0.0265

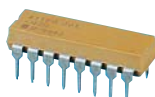
4-commoned resistors (6-pin)					
470R	63-0249	0.10	0.053	0.0371	0.0265
1K	63-0250	0.13	0.0742	0.0456	0.0329
2K2	63-0255	0.13	0.0742	0.0456	0.0329
4K7	63-0260	0.13	0.0742	0.0456	0.0329
10K	63-0265	0.10	0.053	0.0371	0.0265
22K	63-0270	0.13	0.0742	0.0456	0.0329
47K	63-0275	0.			

470R	63-0205	0.14	0.0848	0.053	0.0392
1K	63-0215	0.11	0.0636	0.0424	0.0318
2K2	63-0220	0.14	0.0848	0.053	0.0392
4K7	63-0225	0.11	0.0636	0.0424	0.0318
10K	63-0230	0.11	0.0636	0.0424	0.0318
22K	63-0235	0.14	0.0848	0.053	0.0392
47K	63-0240	0.14	0.0848	0.053	0.0392
100K	63-0245	0.11	0.0636	0.0424	0.0318
9-common resistors (10-pin)					
220R	63-0335	0.14	0.0848	0.0594	0.0456
470R	63-0345	0.14	0.0848	0.0594	0.0456
1K	63-0350	0.14	0.0848	0.0594	0.0456
2K2	63-0360	0.14	0.0848	0.0594	0.0456
3K3	63-0365	0.14	0.0848	0.0594	0.0456
4K7	63-0370	0.14	0.0848	0.0594	0.0456
10K	63-0375	0.14	0.0848	0.0594	0.0456
22K	63-0380	0.14	0.0848	0.0594	0.0456
100K	63-0390	0.14	0.0848	0.0594	0.0456



DIL Resistor networks

Thick film resistor networks housed in a 16-pin dual in-line package. Each package contains eight individual isolated resistors. Considerably assists in the design of and layout of printed circuit boards, especially in logic circuits.



- Reduces assembly time
- Ideal for high density applications
- Bourns 4116R series

Technical specification	
Tolerance	1000 ±1%, >1000 2%
Power rating (per package)	2W @ 70°C
Temperature coefficient	±100ppm (±250ppm < 1000Ω)
Max. working voltage	100V DC
Operating temp. range	-55°C to +125°C

Type	Order code	1+	100+	500+	1000+
47R	63-0620	0.35	0.30	0.28	0.26
100R	63-0625	0.35	0.30	0.28	0.26
220R	63-0630	0.35	0.30	0.28	0.26
330R	63-0635	0.35	0.30	0.28	0.26
470R	63-0640	0.35	0.30	0.28	0.26
1K	63-0645	0.35	0.30	0.28	0.26
2K2	63-0650	0.35	0.30	0.28	0.26
4K7	63-0655	0.35	0.30	0.28	0.28
10K	63-0660	0.39	0.35	0.32	0.29
22K	63-0665	0.35	0.30	0.28	0.26
47K	63-0670	0.35	0.30	0.28	0.26
100K	63-0675	0.35	0.30	0.28	0.26

Carbon composition resistors



0.25W Carbon composition resistor kit



Three lidded boxes, each containing ten each of 24 values of leaded 1¹/₂W carbon composition resistors.

- Range of values from 2.2Ω to 1kΩ, 1.1kΩ to 100kΩ and 100kΩ to 921kΩ
- Tolerance 5%
- Ideal for prototyping and development work
- For details of resistors see following

Technical specification			
Kit contents (x10 each value):			
63-2450	63-2451	63-2452	
Value (Ω)	Value (Ω)	Value (Ω)	
2.2	1.1k	100k	
2.7	1.5k	110k	
3.3	1.8k	120k	
4.7	2k	130k	
5.6	2.7k	150k	
6.8	3k	160k	
8.2	3.3k	180k	
10	3.9k	200k	
13	4.7k	220k	
15	5.6k	240k	
20	6.8k	270k	
27	8.2k	300k	
47	10k	330k	
68	15k	360k	
75	20k	390k	
100	27k	430k	
220	30k	470k	
360	33k	510k	
470	47k	560k	
560	56k	620k	
680	68k	680k	
750	75k	750k	
820	82k	820k	
1k	100k	910k	

Type	Range (Ω)	Order code	1+
1/4W Res kit	2R2 - 1K	63-2450	39.00
1/4W Res kit	1K1 - 100K	63-2451	39.00
1/4W Res kit	100K - 910K	63-2452	39.00



0.25W Carbon composition resistors



A range of 1/4W carbon composition resistors that provide very high pulse capability with good stability and high reliability. Their carbon composition design gives better pulse endurance characteristics compared to film type resistors.

- Wide range of values from 2.2Ω to 910kΩ
- Tolerance 5%
- Low inductance and capacitance
- Arcol RCC025 series

Technical specification	
Rated dissipation at 70°C	
Tolerance on rated resistance	±5%
Resistance range	2.2Ω to 910kΩ
Limiting element voltage	250V
Isolation voltage	100V
Temperature range	-55°C to +125°C
Dimensions (mm)	6.3 x 2.4 30 x 0.6

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
2R2-75R							
2R2	63-2308	5R6	63-2312	13R	63-2316	47R	63-2320
2R7	63-2309	6R8	63-2313	15R	63-2317	68R	63-2321
3R3	63-2310	8R2	63-2314	20R	63-2318	75R	63-2322
4R7	63-2311	10R	63-2315	27R	63-2319		
100R-820R							
100R	63-2323	360R	63-2325	560R	63-2327	750R	63-2329
220R	63-2324	470R	63-2326	680R	63-2328	820R	63-2330
1K-82K							
1K	63-2331	1K8	63-2334	3K	63-2337	4K7	63-2340
1K1	63-2332	2K	63-2335	3K3	63-2338	5K6	63-2341
1K5	63-2333	2K7	63-2336	3K9	63-2339	8K2	63-2343
10K-82K							
10K	63-2344	27K	63-2347	47K	63-2350	75K	63-2353
15K	63-2345	30K	63-2348	56K	63-2351	82K	63-2354
20K	63-2346	33K	63-2349	68K	63-2352		
100K-910K							
100K	63-2355	180K	63-2361	330K	63-2367	620K	63-2374
110K	63-2356	200K	63-2362	360K	63-2368	680K	63-2375
120K	63-2357	220K	63-2363	430K	63-2370	750K	63-2376
130K	63-2358	240K	63-2364	470K	63-2371	820K	63-2377
150K	63-2359	270K	63-2365	510K	63-2372	910K	63-2378
160K	63-2360	300K	63-2366	560K	63-2373		

	Order code	1+	50+	250+	1000+
Small quantities	ALL CODES	0.11	0.106	0.098	0.092



0.5W Carbon composition resistor kit



Three lidded boxes, each containing ten each of 24 values of leaded 1/2W carbon composition resistors.

- Range of values from 2.2Ω to 1kΩ, 1.1kΩ to 100kΩ and 100kΩ to 921kΩ
- Tolerance 5%
- Ideal for prototyping and development work
- For details of resistors see below

Technical specification			
Kit contents (x10 each value):			
63-2453	63-2454	63-2455	
Value (Ω)	Value (Ω)	Value (Ω)	
2.2	1.1k	100k	
2.7	1.5k	110k	
3.3	1.8k	120k	
4.7	2k	130k	
5.6	2.7k	150k	
6.8	3k	160k	
8.2	3.3k	180k	
10	3.9k	200k	
13	4.7k	220k	
15	5.6k	240k	
20	6.8k	270k	
27	8.2k	300k	
47	10k	330k	
68	15k	360k	
75	20k	390k	
100	27k	430k	
220	30k	470k	
360	33k	510k	
470	47k	560k	
560	56k	620k	
680	68k	680k	
750	75k	750k	
820	82k	820k	
1k	100k	910k	

Type	Range (Ω)	Order code	1+
1/2W Res kit	2R2 - 1K	63-2453	39.00
1/2W Res kit	1K1 - 100K	63-2454	39.00
1/2W Res kit	100K - 910K	63-2455	39.00



0.5W Carbon composition resistors



A range of 1/2W carbon composition resistors that provide very high pulse capability with good stability and high reliability. Their carbon composition design gives better pulse endurance characteristics compared to film type resistors.

- Wide range of values from 2.2Ω to 910kΩ
- Tolerance 5%
- Low inductance and capacitance
- Arcol RCC050 series

Technical specification	
Rated dissipation at 70°C	
Tolerance on rated resistance	±5%
Resistance range	2.2Ω to 910kΩ
Limiting element voltage	350V
Isolation voltage	500V
Temperature range	-55°C to +125°C
Dimensions (mm)	9.5 x 3.6 28 x 0.7

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
2R2-75R							
2R2	63-2379	5R6	63-2383	13R	63-2387	47R	63-2391
2R7	63-2380	6R8	63-2384	15R	63-2388	68R	63-2392
3R3	63-2381	8R2	63-2385	20R	63-2389	75R	63-2393
4R7	63-2382	10R	63-2386	27R	63-2390		
100R-820R							
100R	63-2394	360R	63-2396	560R	63-2398	750R	63-2400
220R	63-2395	470R	63-2397	680R	63-2399	820R	63-2401
1K-8.2K							
1K	63-2402	2K	63-2406	3K3	63-2409	5K6	63-2412
1K1	63-2403	2K7	63-2407	3K9	63-2410	6K8	63-2413
1K5	63-2404	3K	63-2408	4K7	63-2411	8K2	63-2414
1K8	63-2405						
10K-82K							
10K	63-2415	27K	63-2418	47K	63-2421	75K	63-2424
15K	63-2416	30K	63-2419	56K	63-2422	82K	63-2425
20K	63-2417	33K	63-2420	68K	63-2423		
100K-910K							
100K	63-2426	180K	63-2432	330K	63-2438	560K	63-2444
110K	63-2427	200K	63-2433	360K	63-2439	620K	63-2445
120K	63-2428	220K	63-2434	390K	63-2440	680K	63-2446
130K	63-2429	240K	63-2435	430K	63-2441	750K	63-2447
150K	63-2430	270K	63-2436	470K	63-2442	820K	63-2448
160K	63-2431	300K	63-2437	510K	63-2443	910K	63-2449

	Order code	1+	50+	250+	1000+
Small quantities	ALL CODES	0.128	0.118	0.102	0.096

New products
www.rapidonline.com

Carbon film resistors

TruOhm

CR12 0.125W Carbon film resistors

Subminiature high stability carbon film resistors for industrial and consumer electronics applications. Their extremely small body enables high packing densities to be achieved on printed circuit boards.

- 5% tolerance
- 0.125W rated
- **TruOhm CR12 series**
- Supplied in **packs of 100** or **boxes of 2000**

Technical specification	
Rated dissipation at 70°C	0.125W
Resistance tolerance	±5%
Resistance range	1Ω to 4.7MΩ
Temperature coefficient	-100 to -700ppm/°C
Limiting element voltage	200V
Maximum overload voltage	400V
Insulation resistance	1000MΩ
Dimensions (mm)	Body 3.2 x 1.5
	Leads 28 x 0.48

Pack of 100

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-68R							
1R	64-0014	4R7	64-0022	33R	64-0034		
2R2	64-0018	10R	64-0024	47R	64-0038		
100R-820R							
100R	64-0044	180R	64-0054	330R	64-0062	560R	64-1016
120R	64-0048	220R	64-0058	390R	64-1014	680R	64-0068
150R	64-0052	270R	64-1012	470R	64-0064	820R	64-1018
1K-82K							
1K	64-0072	2K2	64-0084	3K3	64-0088	4K7	64-0092
1K5	64-0078	2K7	64-1020	3K9	64-1022	5K6	64-1024
10K-68K							
10K	64-0098	15K	64-0104	22K	64-0112	47K	64-0118
12K	64-0102	18K	64-0108	33K	64-0114		
100K-680K							
100K	64-0124	220K	64-0134	330K	64-0138	680K	64-0144
180K	64-0132	270K	64-1038	470K	64-0142		
1M-10M							
1M	64-0148	2M2	64-0152	4M7	64-0154	10M	64-1044
				Order code	1+	10+	50+
Pack of 100				ALL CODES	0.65	0.50	0.38

Box of 2000

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-68R							
1R	64-1100	33R	64-1112	47R	64-1114	68R	64-1116
10R	64-1106						
100R-820R							
100R	64-1118	180R	64-1124	330R	64-1128	560R	64-1066
120R	64-1120	220R	64-1126	390R	64-1064	680R	64-1132
150R	64-1122	270R	64-1062	470R	64-1130	820R	64-1068
1K-82K							
1K	64-1134	1K8	64-1140	3K3	64-1186	5K6	64-1074
1K2	64-1136	2K2	64-1142	3K9	64-1072	8K2	64-1076
1K5	64-1138	2K7	64-1070	4K7	64-1144		
10K-68K							
10K	64-1148	18K	64-1154	33K	64-1158	47K	64-1160
12K	64-1150	22K	64-1156	39K	64-1080	56K	64-1082
15K	64-1152						
100K-680K							
100K	64-1164	180K	64-1168	330K	64-1172	680K	64-1176
150K	64-1086	220K	64-1170	470K	64-1174		
1M-10M							
1M	64-1178	2M2	64-1180	4M7	64-1182	10M	64-1184
				Order code	1+	10+	50+
Box of 2000				ALL CODES	6.40	5.30	4.95



Free delivery
on all orders over £30
(excl. VAT)
(UK mainland only)

TruOhm

CR25 0.25W Carbon film resistors

Miniature high stability 0.25W carbon film resistors for industrial and consumer electronic equipment. A zero-Ohm resistor is also available which is a useful alternative to jumper or wire links on PCBs.

- 5% tolerance
- 0.25W rated
- Supplied in **packs of 100** or **boxes of 1000**

Technical specification	
Power rating	0.25W
Resistance range	0Ω - 10MΩ
Tolerance	±5%
Temperature coefficient	±400 ppm/°C
Operating voltage max.	300V
Temperature range	-25°C to +70°C
Dimensions	body 6.5 x 2.3mm
	leads 30 x 0.6mm

Pack of 100

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
0R-82R							
0R	62-0314	3R3	62-0309	12R	62-0319	39R	62-0336
1R	62-0303	3R9	62-0310	15R	62-0328	47R	62-0338
1R2	62-0304	4R7	62-0320	18R	62-0322	56R	62-0340
1R5	62-0305	5R6	62-0313	22R	62-0330	68R	62-0342
1R8	62-0306	6R8	62-0324	27R	62-0332	75R	62-0295
2R2	62-0307	8R2	62-0316	33R	62-0334	82R	62-0344
2R7	62-0308	10R	62-0326				
100R-820R							
100R	62-0346	180R	62-0352	330R	62-0358	560R	62-0364
120R	62-0348	220R	62-0354	390R	62-0360	680R	62-0366
150R	62-0350	270R	62-0356	470R	62-0362	820R	62-0368
1K-82K							
1K	62-0370	1K8	62-0376	3K3	62-0382	5K6	62-0388
1K2	62-0372	2K2	62-0378	3K9	62-0384	6K8	62-0390
1K5	62-0374	2K7	62-0380	4K7	62-0386	8K2	62-0392
10K-82K							
10K	62-0394	18K	62-0400	33K	62-0406	56K	62-0412
12K	62-0396	22K	62-0402	39K	62-0408	68K	62-0414
15K	62-0398	27K	62-0404	47K	62-0410	82K	62-0416
100K-820K							
100K	62-0418	180K	62-0424	330K	62-0430	560K	62-0436
120K	62-0420	220K	62-0426	390K	62-0432	680K	62-0438
150K	62-0422	270K	62-0428	470K	62-0434	820K	62-0440
1M-10M							
1M	62-0442	2M2	62-0450	3M9	62-0456	6M8	62-0462
1M2	62-0444	2M7	62-0452	4M7	62-0458	8M2	62-0464
1M5	62-0446	3M3	62-0454	5M6	62-0460	10M	62-0466
1M8	62-0448						
				Order code	1+	10+	50+
Pack of 100				ALL CODES	0.56	0.40	0.32

Box of 1000

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
0R-82R							
0R	62-0317	3R3	62-0302	12R	62-0321	39R	62-0339
1R	62-0312	3R9	62-0311	15R	62-0331	47R	62-0341
1R2	62-0297	4R7	62-0323	18R	62-0325	56R	62-0343
1R5	62-0298	5R6	62-0315	22R	62-0333	68R	62-0345
1R8	62-0299	6R8	62-0327	27R	62-0335	75R	62-0294
2R2	62-0300	8R2	62-0318	33R	62-0337	82R	62-0347
2R7	62-0301	10R	62-0329				
100R-820R							
100R	62-0349	180R	62-0355	330R	62-0361	560R	62-0367
120R	62-0351	220R	62-0357	390R	62-0363	680R	62-0369
150R	62-0353	270R	62-0359	470R	62-0365	820R	62-0371
1K-82K							
1K	62-0373	1K8	62-0379	3K3	62-0385	5K6	62-0391
1K2	62-0375	2K2	62-0381	3K9	62-0387	6K8	62-0393
1K5	62-0377	2K7	62-0383	4K7	62-0389	8K2	62-0395
10K-82K							
10K	62-0397	18K	62-0403	33K	62-0409	56K	62-0415
12K	62-0399	22K	62-0405	39K	62-0411	68K	62-0417
15K	62-0401	27K	62-0407	47K	62-0413	82K	62-0419
100K-820K							
100K	62-0421	180K	62-0427	330K	62-0433	560K	62-0439
120K	62-0423	220K	62-0429	390K	62-0435	680K	62-0441
150K	62-0425	270K	62-0431	470K	62-0437	820K	62-0443
1M-10M							
1M	62-0445	2M2	62-0453	3M9	62-0459	6M8	62-0465
1M2	62-0447	2M7	62-0455	4M7	62-0461	8M2	62-0467
1M5	62-0449	3M3	62-0457	5M6	62-0463	10M	62-0469
1M8	62-0451						
				Order code	1+	5+	10+
Box of 1000				ALL CODES	3.30	2.70	2.45

TruOhm

CR25 Carbon film resistor kits



A pack containing a total of 1000 0.25W 5% carbon film resistors.

- Values ranging from 4.7Ω through to 10MΩ
- A total of 63 different values
- Supplied in **8 packs**.

See **Storage/Packing Equipment** section for suitable storage cabinets.

Technical specification					
10 x 4R7	10 x 150R	15 x 1K2	30 x 10K	15 x 68K	25 x 470K
10 x 10R	15 x 180R	15 x 1K5	15 x 12K	10 x 82K	10 x 560K
10 x 15R	20 x 220R	10 x 1K8	15 x 15K	30 x 100K	10 x 680K
10 x 22R	20 x 270R	25 x 2K2	15 x 18K	20 x 120K	5 x 820K
10 x 33R	20 x 330R	20 x 2K7	20 x 22K	15 x 150K	20 x 1M
20 x 47R	10 x 390R	20 x 3K3	15 x 27K	15 x 180K	10 x 2M2
10 x 56R	30 x 470R	15 x 3K9	20 x 33K	20 x 220K	5 x 3M3
10 x 68R	20 x 560R	25 x 4K7	10 x 39K	15 x 270K	10 x 4M7
10 x 82R	20 x 680R	20 x 5K6	30 x 47K	15 x 330K	5 x 6M8
20 x 100R	10 x 820R	15 x 6K8	20 x 56K	10 x 390K	20 x 10M
10 x 120R	30 x 1K	10 x 8K2			

Type	Order code	1+	5+
CR25 0.25W Resistor kit	13-0200	8.90	7.50

velleman

E12 Series 610 piece carbon film resistor kit

A kit of high-quality carbon film resistors in the popular E12 series of preferred values.

- Axial leaded
- 61 values with 10 pieces per value



Technical specification	
Power rating	1/4W
Tolerance	5%
Max. operating voltage	250V
Operating temperature range	-55°C to +155°C

Kit contents: 10x					
10R	180R	3K3	56K	1M0	
12R	220R	3K9	68K	82K	
15R	270R	4K7	82K		
18R	330R	5K6	100K		
22R	390R	6K8	120K		
27R	470R	8K2	150K		
33R	560R	10K	180K		
39R	680R	12K	220K		
47R	820R	15K	270K		
56R	10K	18K	330K		
68R	12K	22K	390K		
82R	15K	27K	470K		
100R	18K	33K	560K		
120R	2K2	39K	680K		
150R	2K7	47K	820K		

Type	Order code	1+	5+
E12 610 Pcs carbon res. kit	13-0201	5.50	4.50

Optoelectronics section

TruOpto



velleman®
E3 Series 480-piece
carbon film resistor kit

A kit of high-quality carbon film resistors in the popular E3 series of preferred values.
 • Axial leaded
 • 16 values with 30 pieces per value



Technical specification	
Power rating	1/4W
Tolerance	5%
Max. operating voltage	250V
Operating temperature range	-55°C to +155°C

Kit contents: 30x	10R	4k7
	22R	10k
	47R	22k
	100R	47k
	220R	100k
	470R	220k
	1k0	470k
	2k2	1M0

type	Order code	1+	5+
E3 480 Pcs carbon res. kit	13-0202	5.63	4.38

Page 995

Storage cabinets



TruOhm
Wire links

Tinned copper wires available on banded tape with equivalent spacing to the CR25 resistor range.

- Choice of 0.5mm dia. (approx. 25SWG), 0.6mm dia. (approx. 23SWG), or 0.8mm dia. (approx. 21SWG)
- Resistance 10mΩ
- Supplied in **packs of 1000** or on **full reels of 10,000**

Price per pack of 1000			
type	Order code	1+	5+
0.5mm wire link	62-0470	2.50	2.30
0.6mm wire link	62-0472	3.50	3.20
Price per reel of 10,000			
0.5mm wire link	62-0476	26.50	25.18
0.6mm wire link	62-0478	34.45	30.48

TruOhm
CR50 0.5W Carbon film resistors



Miniature high stability 0.5W carbon film resistors for industrial and consumer electronic equipment.

- 5% tolerance
- 0.5W rated
- Supplied in **packs of 100** or **boxes of 1000**

Technical specification	0.5W
Power rating @ 70°C	4.7Ω to 8.2MΩ
Resistance range	±5%
Tolerance	10Ω below ±200ppm/°C
Temperature coefficient	56KΩ below ±300ppm/°C
	68K-470KΩ -500ppm/°C
	560K-1MΩ -700ppm/°C
	1M2Ω up -1000ppm/°C
Operating voltage max.	350V
Temperature range	-25°C to +70°C
Dimensions	body 8.8 x 2.8mm
	leads 27 x 0.6mm

Pack of 100					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
4R7-82R					
4R7	62-0510	15R	62-0522	33R	62-0526
5R6	62-0500	18R	62-0508	39R	62-0514
6R8	62-0502	22R	62-0524	47R	62-0528
10R	62-0518			82R	62-0520
100R-820R					
100R	62-0536	180R	62-0540	330R	62-0546
120R	62-0530	220R	62-0542	390R	62-0534
150R	62-0538	270R	62-0544	470R	62-0548
1K-8K2					
1K	62-0556	2K2	62-0564	3K9	62-0570
1K2	62-0558	2K7	62-0566	4K7	62-0572
1K5	62-0560	3K3	62-0568	5K6	62-0574
1K8	62-0562			8K2	62-0578
10K-82K					
10K	62-0580	18K	62-0586	33K	62-0592
12K	62-0582	22K	62-0588	39K	62-0594
15K	62-0584	27K	62-0590	47K	62-0596
100K-820K					
100K	62-0604	180K	62-0610	330K	62-0616
120K	62-0606	220K	62-0612	430K	62-0493
150K	62-0608	270K	62-0614	470K	62-0620
1M-8M2					
1M	62-0628	2M2	62-0636	4M7	62-0644
1M5	62-0634	3M3	62-0642	5M6	62-0495
1M8	62-0638			8M2	62-0499

Order code	1+	10+	50+
Pack of 100	ALL CODES	1.10	0.90

Box of 1000					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
4R7-82R					
4R7	62-0513	12R	62-0507	33R	62-0529
5R6	62-0501	15R	62-0525	39R	62-0515
6R8	62-0503	18R	62-0509	47R	62-0531
10R	62-0521	22R	62-0527	82R	62-0519
100R-820R					
100R	62-0537	180R	62-0543	330R	62-0549
120R	62-0533	220R	62-0545	390R	62-0539
150R	62-0541	270R	62-0547	470R	62-0551
1K-8K2					
1K	62-0559	2K2	62-0567	3K9	62-0573
1K2	62-0561	2K7	62-0569	4K7	62-0575
1K5	62-0563	3K3	62-0571	5K6	62-0577
1K8	62-0565			8K2	62-0488
10K-82K					
10K	62-0583	18K	62-0589	33K	62-0595
12K	62-0585	22K	62-0591	39K	62-0597
15K	62-0587	27K	62-0593	47K	62-0599
100K-820K					
100K	62-0607	220K	62-0615	390K	62-0621
120K	62-0609	270K	62-0617	430K	62-0492
150K	62-0611	330K	62-0619	470K	62-0623
180K	62-0613			820K	62-0629
1M-8M2					
1M	62-0631	1M8	62-0637	3M3	62-0643
1M2	62-0633	2M2	62-0639	4M7	62-0647
1M5	62-0635	2M7	62-0641	5M6	62-0494

Order code	1+	5+	10+
Box of 1000	ALL CODES	6.40	5.90

TruOhm
CR50 Carbon film resistor kit



A pack containing a total of 1000 0.5W 5% carbon film resistors.

- A total of 58 different values

See www.rapidonline.com for suitable storage cabinets.

Technical specification	0.5W
Power rating	4.7Ω to 8.2MΩ
Resistance range	±5%
Tolerance	10Ω below ±200ppm/°C
Temperature coefficient	56KΩ below ±300ppm/°C
	68K-470KΩ -500ppm/°C
	560K-1MΩ -700ppm/°C
	1M2Ω up -1000ppm/°C
Operating voltage max.	350V
Temperature range	-25°C to +70°C
Dimensions	body 8.8 x 2.8mm
	leads 27 x 0.6mm

type	Order code	1+	5+
CR50 0.5W Resistor kit	13-0260	10.30	8.45

Metal film resistors

ARCOL
0.25W 0.1% MRA Precision metal film resistors



A range of precision resistors that are made by evaporating a thin film of nickel-chrome alloy onto a thermally conductive ceramic element. This produces a resistor with excellent stability under load, with very low noise current and voltage coefficients.

- Available in a range of values from 100Ω to 1MΩ
- High tolerance 0.1%
- Rated power 0.25W
- Excellent long term stability
- **Arcol MRA series**

Technical specification	0.25W
Rated dissipation at 70°C	±0.1%
Tolerance on rated resistance	100Ω to 1MΩ
Resistance range	15ppm/°C
Temperature coefficient	250V
Limiting element voltage	500V
Isolation voltage	5ppm/V
Voltage coefficient max.	-55°C to +125°C
Temperature range	5.6 x 2.3
Dimensions (mm)	Body 25 x 0.6
	Leads

Value (Ω)	Order code	1+	50+	250+	1000+
100R	63-2300	0.49	0.45	0.39	0.35
249R	63-2301	0.49	0.45	0.39	0.35
499R	63-2302	0.49	0.45	0.39	0.35
1K	63-2303	0.49	0.45	0.39	0.35
2K	63-2304	0.49	0.45	0.39	0.35
10K	63-2305	0.49	0.45	0.39	0.35
20K	63-2306	0.49	0.45	0.39	0.35
1M	63-2307	0.49	0.45	0.39	0.35

Grab yourself a deal



See our clearance section

www.rapidonline.com/clearance



0.4W 0.1% 15ppm Precision metal film resistors

Precision metal film resistors offering high precision coupled with very high stability. Light blue body colour with 5 band colour coding all supplied in a standard 0.25W sized body.

- 0.1% tolerance
- 0.4W rated
- Equivalent to Welwyn RC55 and Meggitt H8 series
- BC Components MBB0207 series
- Supplied on 8mm tape

Technical specification	
Dimensions	6.3 x 2.5mm
Power rating	0.4W @ 70°C
Resistance tolerance	±0.1%
Temperature coefficient	±15ppm
Resistance range	10Ω - 1MΩ
Max working voltage	300V
Climatic category	55/85/56
Operating temperature range	-25°C to +125°C

8mm Tape					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R-47R					
10R	63-1000	22R	63-1008	33R	63-1012
18R	63-1006	27R	63-1010	47R	63-1016

100R-976R					
100R	63-1024	215R	63-1092	330R	63-1132
105R	63-1028	220R	63-1094	348R	63-1138
120R	63-1040	226R	63-1098	357R	63-1140
121R	63-1042	237R	63-1102	365R	63-1142
127R	63-1046	243R	63-1104	374R	63-1144
150R	63-1060	249R	63-1106	470R	63-1166
154R	63-1062	255R	63-1108	475R	63-1168
169R	63-1070	280R	63-1118	499R	63-1172
200R	63-1086	301R	63-1124	604R	63-1190
205R	63-1088	309R	63-1126		

1K-9K76					
1K	63-1236	1K87	63-1290	3K24	63-1340
1K02	63-1238	2K	63-1296	3K3	63-1342
1K1	63-1244	2K05	63-1298	3K32	63-1344
1K13	63-1246	2K1	63-1300	3K4	63-1346
1K15	63-1248	2K2	63-1304	3K48	63-1348
1K2	63-1250	2K21	63-1306	3K65	63-1352
1K21	63-1252	2K26	63-1308	3K74	63-1354
1K24	63-1254	2K43	63-1314	3K83	63-1356
1K27	63-1256	2K49	63-1316	3K9	63-1358
1K3	63-1258	2K55	63-1318	3K92	63-1360
1K33	63-1260	2K61	63-1320	4K02	63-1362
1K4	63-1264	2K67	63-1322	4K22	63-1366
1K47	63-1268	2K7	63-1324	4K32	63-1368
1K5	63-1270	2K74	63-1326	4K42	63-1370
1K54	63-1272	2K8	63-1328	4K64	63-1374
1K58	63-1274	2K94	63-1332	4K7	63-1376
1K62	63-1276	3K01	63-1334	4K75	63-1378
1K69	63-1280	3K09	63-1336		

10K-95K3					
10K	63-1448	18K	63-1500	33K	63-1554
10K2	63-1450	18K2	63-1502	33K2	63-1556
10K5	63-1452	19K1	63-1504	34K	63-1558
10K7	63-1454	19K6	63-1506	34K8	63-1560
11K	63-1456	20K	63-1508	35K7	63-1562
11K3	63-1458	20K5	63-1510	38K3	63-1568
11K5	63-1460	21K	63-1512	39K	63-1570
12K	63-1464	21K5	63-1514	39K2	63-1572
12K1	63-1466	22K	63-1516	40K2	63-1574
12K4	63-1468	22K1	63-1518	42K2	63-1578
12K7	63-1470	22K6	63-1520	43K2	63-1580
13K	63-1472	24K3	63-1526	44K2	63-1582
13K3	63-1474	24K9	63-1528	45K3	63-1584
14K	63-1478	25K5	63-1530	46K4	63-1586
15K	63-1484	27K	63-1536	47K	63-1588
15K4	63-1486	27K4	63-1538	47K5	63-1590
16K5	63-1492	28K7	63-1542	49K9	63-1594
16K9	63-1494	29K4	63-1544	51K1	63-1596
17K8	63-1498	30K1	63-1546	53K6	63-1600

100K-1M					
100K	63-1658	133K	63-1684	196K	63-1716
102K	63-1660	137K	63-1686	200K	63-1718
105K	63-1662	150K	63-1694	205K	63-1720
110K	63-1666	165K	63-1702	215K	63-1724
113K	63-1668	169K	63-1704	220K	63-1726
115K	63-1670	178K	63-1708	221K	63-1728
120K	63-1674	182K	63-1710	226K	63-1730
130K	63-1682	187K	63-1712	249K	63-1738

Order code					
8mm Tape	ALL CODES	1+	50+	250+	1000+
		0.20	0.18	0.16	0.14



0.4W 0.1% 25ppm Precision metal film resistors

Precision metal film resistors offering high precision coupled with very high stability. Light blue body colour with 5 band colour coding all supplied in a standard 0.25W sized body.

- 0.1% tolerance
- 0.4W rated
- Equivalent to Welwyn RC55 and Meggitt H8 series
- BC Components MBB0207 series
- Supplied on 8mm tape

Technical specification	
Dimensions	6.3 x 2.5mm
Power rating	0.4W @ 70°C
Resistance tolerance	±0.1%
Temperature coefficient	±25ppm
Resistance range	10Ω - 1MΩ
Max working voltage	300V
Climatic category	55/85/56
Operating temperature range	-25°C to +125°C

8mm Tape					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

10R-47R					
10R	63-2500	22R	63-2502	33R	63-2504
18R	63-2501	27R	63-2503	47R	63-2505

100R-976R					
100R	63-2506	215R	63-2516	330R	63-2526
105R	63-2507	220R	63-2517	348R	63-2527
120R	63-2508	226R	63-2518	357R	63-2528
121R	63-2509	237R	63-2519	365R	63-2529
127R	63-2510	243R	63-2520	374R	63-2530
150R	63-2511	249R	63-2521	470R	63-2531
154R	63-2512	255R	63-2522	475R	63-2532
169R	63-2513	280R	63-2523	499R	63-2533
200R	63-2514	301R	63-2524	604R	63-2534
205R	63-2515	309R	63-2525		

1K-9K76					
1K	63-2544	1K87	63-2562	3K24	63-2580
1K02	63-2545	2K	63-2563	3K3	63-2581
1K1	63-2546	2K05	63-2564	3K32	63-2582
1K13	63-2547	2K1	63-2565	3K4	63-2583
1K15	63-2548	2K2	63-2566	3K48	63-2584
1K2	63-2549	2K21	63-2567	3K65	63-2585
1K21	63-2550	2K26	63-2568	3K74	63-2586
1K24	63-2551	2K43	63-2569	3K83	63-2587
1K27	63-2552	2K49	63-2570	3K9	63-2588
1K3	63-2553	2K55	63-2571	3K92	63-2589
1K33	63-2554	2K61	63-2572	4K02	63-2590
1K4	63-2555	2K67	63-2573	4K22	63-2591
1K47	63-2556	2K7	63-2574	4K32	63-2592
1K5	63-2557	2K74	63-2575	4K42	63-2593
1K54	63-2558	2K8	63-2576	4K64	63-2594
1K58	63-2559	2K94	63-2577	4K7	63-2595
1K62	63-2560	3K01	63-2578	4K75	63-2596
1K69	63-2561	3K09	63-2579	4K99	63-2597

10K-95K3					
10K	63-2614	18K	63-2633	33K	63-2652
10K2	63-2615	18K2	63-2634	33K2	63-2653
10K5	63-2616	19K1	63-2635	34K	63-2654
10K7	63-2617	19K6	63-2636	34K8	63-2655
11K	63-2618	20K	63-2637	35K7	63-2656
11K3	63-2619	20K5	63-2638	38K3	63-2657
11K5	63-2620	21K	63-2639	39K	63-2658
12K	63-2621	21K5	63-2640	39K2	63-2659
12K1	63-2622	22K	63-2641	40K2	63-2660
12K4	63-2623	22K1	63-2642	42K2	63-2661
12K7	63-2624	22K6	63-2643	43K2	63-2662
13K	63-2625	24K3	63-2644	44K2	63-2663
13K3	63-2626	24K9	63-2645	45K3	63-2664
14K	63-2627	25K5	63-2646	46K4	63-2665
15K	63-2628	27K	63-2647	47K	63-2666
15K4	63-2629	27K4	63-2648	47K5	63-2667
16K5	63-2630	28K7	63-2649	49K9	63-2668
16K9	63-2631	29K4	63-2650	51K1	63-2669
17K8	63-2632	30K1	63-2651	53K6	63-2670

100K-1M					
100K	63-2689	133K	63-2697	196K	63-2705
102K	63-2690	137K	63-2698	200K	63-2706
105K	63-2691	150K	63-2699	205K	63-2707
110K	63-2692	165K	63-2700	215K	63-2708
113K	63-2693	169K	63-2701	220K	63-2709
115K	63-2694	178K	63-2702	221K	63-2710
120K	63-2695	182K	63-2703	226K	63-2711
130K	63-2696	187K	63-2704	249K	63-2712

Order code					
8mm Tape	ALL CODES	1+	50+	250+	1000+
		0.15	0.12	0.11	0.095

Component preforming machines



MR25 0.25W 1% Metal film resistors

Highly stable miniature metal film resistors protected against adverse environmental conditions by multiple epoxy coatings.

- For use in industrial electronics equipment
- 1% tolerance
- 0.25W rated
- Supplied in packs of 100 or boxes of 1000

Technical specification	
Power rating	0.25W @ 70°C
Resistance range	1Ω to 10MΩ
Tolerance	±1%
Max. working voltage	300V
Max. overload voltage	600V
Max. temperature coefficient	50ppm/°C
Typical noise	0.01µV/V
Temperature range	-25°C to +70°C
Dimensions	body 6.3 x 2.3mm dia. leads 28 x 0.6mm dia.

Pack of 100					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code

1R-91R					
1R	62-1981	11R	62-1993	27R	62-1997
1R5	62-1983	12R	62-0714	30R	62-0730
2R2	62-1985	15R	62-0717	33R	62-0732
3R3	62-1987	16R	62-1995	39R	62-07

Box of 1000									
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-91R									
1R	62-1980	12R	62-1024	27R	62-1996	51R	62-1052		
1R5	62-1982	13R	62-1025	30R	62-1041	56R	62-1054		
2R2	62-1984	15R	62-1027	33R	62-1042	62R	62-1055		
3R3	62-1986	16R	62-1994	36R	62-1043	68R	62-1057		
4R7	62-1988	18R	62-1032	39R	62-1044	75R	62-1062		
6R8	62-1990	20R	62-1033	43R	62-1045	82R	62-1064		
10R	62-1022	22R	62-1034	47R	62-1047	91R	62-1067		
11R	62-1992	24R	62-1037						
100R-910R									
100R	62-1072	180R	62-1082	330R	62-1102	560R	62-1114		
110R	62-1073	200R	62-1084	360R	62-1103	620R	62-1117		
120R	62-1074	220R	62-1087	390R	62-1104	680R	62-1122		
130R	62-1076	240R	62-1092	430R	62-1106	750R	62-1124		
150R	62-1077	270R	62-1094	470R	62-1107	820R	62-1127		
160R	62-1079	300R	62-1097	510R	62-1112	910R	62-1132		
1K-9K1									
1K	62-1134	1K8	62-1152	3K3	62-1167	5K6	62-1187		
1K1	62-1135	2K	62-1154	3K6	62-1172	6K2	62-1192		
1K2	62-1137	2K2	62-1157	3K9	62-1174	6K8	62-1194		
1K3	62-1142	2K4	62-1159	4K3	62-1177	7K5	62-1197		
1K5	62-1144	2K7	62-1162	4K7	62-1182	8K2	62-1202		
1K6	62-1147	3K	62-1164	5K1	62-1184	9K1	62-1204		
10K-91K									
10K	62-1207	18K	62-1224	33K	62-1244	56K	62-1257		
11K	62-1212	20K	62-1227	36K	62-1245	62K	62-1259		
12K	62-1214	22K	62-1232	39K	62-1247	68K	62-1262		
13K	62-1215	24K	62-1234	43K	62-1251	75K	62-1264		
15K	62-1217	27K	62-1237	47K	62-1252	82K	62-1267		
16K	62-1222	30K	62-1242	51K	62-1254	91K	62-1272		
100K-10M									
100K	62-1274	200K	62-1292	390K	62-1304	750K	62-1316		
110K	62-1277	220K	62-1294	430K	62-1305	820K	62-1317		
120K	62-1282	240K	62-1296	470K	62-1307	910K	62-1319		
130K	62-1283	270K	62-1297	510K	62-1309	1M	62-1322		
150K	62-1284	300K	62-1299	560K	62-1312	3M3	62-1998		
160K	62-1286	330K	62-1302	620K	62-1313	6M8	62-2000		
180K	62-1287	360K	62-1303	680K	62-1314	10M	62-1323		



MR25 Metal film resistor kit



A pack containing a total of 1000 0.25W 1% 50ppm precision metal film resistors ranging in value from 10Ω through to 1MΩ.

- A total of 70 different values
- Supplied in 10 packs all clearly marked with contents

See www.rapidonline.com for suitable storage cabinets.

Technical specification	10 x 10R	10 x 15R	10 x 180R	10 x 1K	10 x 1K8	10 x 1K5	10 x 1K2	10 x 1K3	10 x 1K4	10 x 1K6	10 x 1K7	10 x 1K8	10 x 1K9	10 x 2K	10 x 2K2	10 x 2K7	10 x 3K	10 x 3K3	10 x 3K6	10 x 3K9	10 x 4K3	10 x 4K7	10 x 4K7	10 x 5K1	10 x 5K6	10 x 6K2	10 x 6K8	10 x 7K5	10 x 8K2	10 x 9K1	10 x 10K	10 x 11K	10 x 12K	10 x 15K	10 x 18K	10 x 20K	10 x 22K	10 x 27K	10 x 30K	10 x 33K	10 x 36K	10 x 39K	10 x 43K	10 x 47K	10 x 51K	10 x 56K	10 x 62K	10 x 68K	10 x 75K	10 x 82K	10 x 91K	10 x 100K	10 x 110K	10 x 120K	10 x 130K	10 x 150K	10 x 160K	10 x 180K	10 x 200K	10 x 220K	10 x 270K	10 x 300K	10 x 330K	10 x 360K	10 x 390K	10 x 430K	10 x 470K	10 x 510K	10 x 560K	10 x 620K	10 x 680K	10 x 750K	10 x 820K	10 x 910K	10 x 1000K
Type	Order code		1+	5+	10+																																																																						
MR25 0.25W Resistor kit	13-0270		8.99	7.50																																																																							

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VISHAY
MRS16T 0.4W 1% Metal film resistors

Subminiature high stability metal film resistors for professional electronics applications.

- Very small body size
- 1% tolerance
- 0.4W rated
- Supplied in packs of 100 or boxes of 1000

Technical specification	0.4W
Rated dissipation @ 70°C	±1%
Resistance tolerance	10Ω to 1MΩ
Resistance range	10Ω below ±200ppm/°C
Temperature coefficient	56KΩ below ±300ppm/°C
	68K-470KΩ -500ppm/°C
	560K-1MΩ -700ppm/°C
	1MΩ up -1000ppm/°C
Limiting element voltage	200V
Operating temperature	-55°C to +155°C
Dimensions	Body 3.7(L) x 1.9(D)mm
	Leads 26.0(L) x 0.5(D)mm

Pack of 100									
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R-600R									
10R	64-0400	68R	64-0430	220R	64-0460	470R	64-0480		
22R	64-0410	100R	64-0440	330R	64-0470	680R	64-0490		
1K-8K2									
1K	64-0500	3K9	64-0535	5K6	64-0545				
2K7	64-0525	4K7	64-0540						
10K-68K									
10K	64-0560	22K	64-0580	68K	64-0610				
15K	64-0570	56K	64-0605						
100K-1M									
100K	64-0620	220K	64-0640	1M	64-0680				
		Order code	1+	5+	10+				
Pack of 100	ALL CODES		2.80	2.50	2.20				

Box of 1000									
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R-600R									
10R	64-0700	68R	64-0730	220R	64-0760	470R	64-0780		
22R	64-0710	100R	64-0740	330R	64-0770	680R	64-0790		
56R	64-0725	120R	64-0745						
1K-8K2									
1K	64-0800	2K7	64-0825	4K7	64-0840	6K8	64-0850		
1K2	64-0805	3K9	64-0835	5K6	64-0845				
10K-1M									
10K	64-0860	39K	64-0895	100K	64-0920	390K	64-0955		
15K	64-0870	56K	64-0905	180K	64-0935	1M	64-0980		
22K	64-0880	68K	64-0910	220K	64-0940				
		Order code	1+	5+	10+				
Box of 1000	ALL CODES		22.00	19.00	17.00				

TruOhm
MF40 0.4W 1% Metal film

High quality, low noise, 1%, 50ppm metal film resistors offering a 0.4W rating in an 1/2 8W sized body.

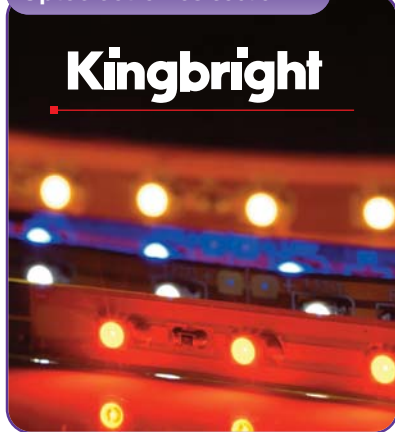
- 1% tolerance
- 0.4W rated
- 0.125W body size.
- May replace Philips MRS16T
- TruOhm MF40 series
- Supplied on 8mm tape in packs of 100 or boxes of 1000

Pack of 100									
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
4R7-91R									
4R7	62-2994	20R	62-2516	30R	62-2524	68R	62-2542		
10R	62-2502	22R	62-2518	47R	62-2534	75R	62-2544		
15R	62-2510	27R	62-2522	51R	62-2536	82R	62-2546		
18R	62-2514								

100R-910R									
100R	62-2550	200R	62-2564	360R	62-2576	560R	62-2586		
110R	62-2552	220R	62-2566	390R	62-2578	620R	62-2588		
120R	62-2554	240R	62-2568	430R	62-2580	680R	62-2590		
150R	62-2558	270R	62-2570	470R	62-2582	750R	62-2592		
160R	62-2560	300R	62-2572	510R	62-2584	820R	62-2594		
180R	62-2562	330R	62-2574						
1K-9K1									
1K	62-2598	2K	62-2614	3K9	62-2626	6K1	62-2636		
1K2	62-2602	2K4	62-2616	4K7	62-2630	6K8	62-2638		
1K5	62-2606	2K7	62-2618	5K1	62-2632	8K2	62-2642		
1K8	62-2610	3K	62-2620	5K6	62-2634	9K1	62-2644		
2K	62-2612	3K3	62-2622						
10K-91K									
10K	62-2646	18K	62-2658	33K	62-2670	51K	62-2680		
11K	62-2648	20K	62-2660	36K	62-2672	56K	62-2682		
12K	62-2650	22K	62-2662	39K	62-2674	68K	62-2686		
15K	62-2654	27K	62-2666	47K	62-2678	75K	62-2688		
100K-10M									
100K	62-2694	200K	62-2708	470K	62-2726	2M2	62-2998		
110K	62-2696	220K	62-2710	560K	62-2730	3M3	62-3000		
120K	62-2698	270K	62-2714	680K	62-2734	4M7	62-3002		
130K	62-2700	300K	62-2716	1M	62-2742	5M6	62-3004		
150K	62-2702	330K	62-2718	1M5	62-2996	10M	62-3008		
160K	62-2704	430K	62-2724						
		Order code	1+	10+	50+				
Pack of 100	ALL CODES		2.30	2.00	1.65				

Box of 1000									
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
4R7-91R									
4R7	62-2993	18R	62-2764	33R	62-2776	56R	62-2788		
10R	62-2752	20R	62-2766	36R	62-2778	62R	62-2790		
11R	62-2754	22R	62-2768	39R	62-2780	68R	62-2792		
13R	62-2758	24R	62-2770	43R	62-2782	75R	62-2794		
15R	62-2760	27R	62-2772	47R	62-2784	82R	62-2796		
16R	62-2762	30R	62-2774						

Optoelectronics section



Kingbright



MRS25 0.6W 1% Metal film resistors

Industry standard high quality high power, low noise, 1%, 50ppm metal film resistors offering a 0.6W rating in a conventional 0.25W sized body.

- 1% tolerance
- 0.6W rated
- 0.25W body size
- Vishay MBB0207 (MRS25) series
- Supplied taped in packs of 100 or boxes of 1000

Technical specification	
Power rating	0.6W at 70°C (derate to zero at 155°C)
Resistance range	1Ω to 10MΩ
Tolerance	±1%
Max. working voltage	350V
Max. overload voltage	700V
Max. temperature coefficient	50ppm/°C (1R, 2R, 4R7 100ppm)
Temperature range	-55°C to +155°C
Dimensions:	body 6.5 x 2.5mm
	leads 0.6 x 26mm

Pack of 100					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-91R					
1R	62-7400	8R2	62-7412	22R	62-7424
2R2	62-7402	10R	62-7414	27R	62-7426
3R3	62-7404	12R	62-7416	33R	62-7428
4R7	62-7406	15R	62-7418	39R	62-7430
5R6	62-7408	18R	62-7420	47R	62-7432
6R8	62-7410	20R	62-7422		
100R-910R					
100R	62-7446	200R	62-7458	360R	62-7470
110R	62-7882	220R	62-7460	390R	62-7472
120R	62-7448	240R	62-7462	430R	62-7474
150R	62-7452	270R	62-7464	470R	62-7476
160R	62-7454	300R	62-7466	510R	62-7478
180R	62-7456	330R	62-7468		
1K-9K1					
1K	62-7490	1K8	62-7502	3K3	62-7514
1K1	62-7492	2K	62-7504	3K6	62-7516
1K2	62-7494	2K2	62-7506	3K9	62-7518
1K3	62-7496	2K4	62-7508	4K3	62-7520
1K5	62-7498	2K7	62-7510	4K7	62-7522
1K6	62-7500	3K	62-7512	5K1	62-7524
10K-91K					
10K	62-7538	18K	62-7550	36K	62-7564
11K	62-7540	20K	62-7552	39K	62-7566
12K	62-7542	22K	62-7554	43K	62-7568
15K	62-7544	27K	62-7558	47K	62-7570
13K	62-7546	30K	62-7560	51K	62-7572
16K	62-7548	33K	62-7562		
100K-910K					
100K	62-7586	180K	62-7598	360K	62-7610
110K	62-7588	200K	62-7600	390K	62-7612
120K	62-7590	220K	62-7602	430K	62-7614
150K	62-7594	240K	62-7604	470K	62-7616
1M-10M					
1M	62-7630	3M3	62-7634	10M	62-7638
2M2	62-7632	4M7	62-7636		
Order code 1+ 10+ 50+					
Pack of 100 ALL CODES 2.20 1.60 1.20					

Box of 1000					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-91R					
1R	62-7640	8R2	62-7652	22R	62-7664
2R2	62-7642	10R	62-7654	27R	62-7666
3R3	62-7644	12R	62-7656	33R	62-7668
4R7	62-7646	15R	62-7658	39R	62-7670
5R6	62-7648	18R	62-7660	47R	62-7672
6R8	62-7650	20R	62-7662	51R	62-7674
100R-910R					
100R	62-7686	180R	62-7698	330R	62-7710
110R	62-7688	200R	62-7700	360R	62-7712
120R	62-7690	220R	62-7702	390R	62-7714
130R	62-7692	240R	62-7704	430R	62-7716
150R	62-7694	270R	62-7706	470R	62-7718
160R	62-7696	300R	62-7708	510R	62-7720
1K-9K1					
1K	62-7732	1K8	62-7744	3K3	62-7756
1K1	62-7734	2K	62-7746	3K6	62-7758
1K2	62-7736	2K2	62-7748	3K9	62-7760
1K3	62-7738	2K4	62-7750	4K3	62-7762
1K5	62-7740	2K7	62-7752	4K7	62-7764
1K6	62-7742	3K	62-7754	5K1	62-7766
10K-91K					
10K	62-7780	18K	62-7792	36K	62-7806
11K	62-7782	20K	62-7794	39K	62-7808
12K	62-7784	22K	62-7796	43K	62-7810
13K	62-7786	27K	62-7800	47K	62-7812
15K	62-7788	30K	62-7802	51K	62-7814
16K	62-7790	33K	62-7804		
100K-910K					
100K	62-7828	160K	62-7838	270K	62-7848
110K	62-7830	180K	62-7840	300K	62-7850
120K	62-7832	200K	62-7842	330K	62-7852
130K	62-7834	220K	62-7844	390K	62-7854
150K	62-7836	240K	62-7846	430K	62-7856
1M-10M					
1M	62-7872	3M3	62-7876	10M	62-7880
2M2	62-7874	4M7	62-7878		
Order code 1+ 5+ 10+					
Box of 1000 ALL CODES 18.50 17.50 16.50					



MF60 0.6W 1% Metal film resistors

High quality high power low noise 1% 50ppm metal film resistors offering a 0.6W rating in a conventional 1¹/₂W sized body.

- May replace Philips MRS25
- TruOhm MF60 series
- Supplied taped in packs of 100 or boxes of 1000

Technical specification	
Dimensions	6 x 2.3mm
Power rating	0.6W at 70°C (derate to zero at 155°C)
Resistance range	10Ω - 3MΩ
Tolerance	±1%
Max. working voltage	350V
Max. overload voltage	700V
Max. temperature coefficient	50ppm/°C
Temperature range	-55°C to +155°C

Pack of 100					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R-82R					
10R	62-2002	20R	62-2016	36R	62-2028
12R	62-2006	22R	62-2018	39R	62-2030
15R	62-2010	27R	62-2022	47R	62-2034
18R	62-2014	30R	62-2024	51R	62-2036
100R-910R					
100R	62-2050	220R	62-2066	390R	62-2078
120R	62-2054	240R	62-2068	430R	62-2080
150R	62-2058	270R	62-2070	470R	62-2082
180R	62-2062	300R	62-2072	510R	62-2084
200R	62-2064	330R	62-2074	560R	62-2086
1K-9K1					
1K	62-2098	1K8	62-2110	3K	62-2122
1K1	62-2100	2K	62-2112	3K3	62-2124
1K2	62-2102	2K2	62-2114	3K9	62-2126
1K5	62-2106	2K4	62-2116	4K7	62-2130
1K6	62-2108	2K7	62-2118	5K1	62-2132
10K-91K					
10K	62-2146	20K	62-2160	33K	62-2170
11K	62-2148	22K	62-2162	39K	62-2174
12K	62-2150	24K	62-2164	43K	62-2176
15K	62-2154	27K	62-2166	47K	62-2178
18K	62-2158	30K	62-2168	51K	62-2180

100K-1M					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
100K	62-2194	180K	62-2206	300K	62-2216
120K	62-2198	200K	62-2208	330K	62-2218
130K	62-2200	220K	62-2210	390K	62-2218
150K	62-2202	270K	62-2214	470K	62-2224
160K	62-2204			1M	62-2240
Order code 1+ 10+ 50+					
Pack of 100 ALL CODES 1.55 1.30 1.15					

Box of 1000					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R-82R					
10R	62-2252	18R	62-2264	33R	62-2276
11R	62-2254	20R	62-2266	36R	62-2278
12R	62-2256	22R	62-2268	39R	62-2280
13R	62-2258	24R	62-2270	43R	62-2282
15R	62-2260	27R	62-2272	47R	62-2284
16R	62-2262	30R	62-2274	51R	62-2286
100R-910R					
100R	62-2300	180R	62-2312	330R	62-2324
110R	62-2302	200R	62-2314	360R	62-2326
120R	62-2304	220R	62-2316	390R	62-2328
130R	62-2306	240R	62-2318	430R	62-2330
150R	62-2308	270R	62-2320	470R	62-2332
160R	62-2310	300R	62-2322	510R	62-2334
1K-9K1					
1K	62-2348	1K8	62-2360	3K3	62-2372
1K1	62-2350	2K	62-2362	3K6	62-2374
1K2	62-2352	2K2	62-2364	3K9	62-2376
1K3	62-2354	2K4	62-2366	4K7	62-2380
1K5	62-2356	2K7	62-2368	5K1	62-2382
1K6	62-2358	3K	62-2370		
10K-91K					
10K	62-2396	18K	62-2408	33K	62-2420
11K	62-2398	20K	62-2410	36K	62-2422
12K	62-2400	22K	62-2412	39K	62-2424
13K	62-2402	24K	62-2414	43K	62-2426
15K	62-2404	27K	62-2416	47K	62-2428
16K	62-2406	30K	62-2418	51K	62-2430
100K-1M					
100K	62-2444	220K	62-2460	430K	62-2472
110K	62-2446	240K	62-2462	470K	62-2474
120K	62-2448	270K	62-2464	510K	62-2476
150K	62-2452	300K	62-2466	560K	62-2478
160K	62-2454	330K	62-2468	600K	62-2480
180K	62-2456	360K	62-2470	620K	62-2482
200K	62-2458	390K	62-2472	680K	62-2484
Order code 1+ 5+ 10+					
Box of 1000 ALL CODES 9.40 7.95 6.95					



MF100 1W 1% metal film resistors

1W metal film resistors covered in a non-flammable lacquer. Ideal replacements for metal oxide or wirewound resistors where a small package size is required.

- 1W rated
- Flame retardant coating
- Meets requirements of MIL-R-10509F

Technical specification	
Dimensions	11 x 4.5mm
Power rating at 70°C	1W
Tolerance	1%
Temperature coefficient	100ppm/°C
Temperature range	-55°C to +125°C

Smaller quantities					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R	62-7890	6R8	62-7960	220R	62-7914
1R2	62-7962	8R2	62-7961	330R	62-7916
1R5	62-7955	10R	62-7898	470R	62-7918
1R8	62-7956	15R	62-7900	680R	62-7920
2R2	62-7892	22R	62-7902	1K	62-7922
2R7	62-7957	33R	62-7904	1K5	62-7924
3R3	62-7894	47R	62-7906	2K2	62-7926
3R9	62-7958	68R	62-7908	3K3	62-7928
4R7	62-7896	100R	62-7910	4K7	62-7930
5R6	62-7959	150R	62-7912	10K	62-7932
Order code 1+ 10+ 50+ 100+					
Smaller quantities ALL CODES 0.089 0.10 0.062 0.056					
Other items available:					
Value (Ω) Order code 1+					
1M 62-7954 0.0145					



PR01 1W Metal film power resistors



Industry standard high power metal film resistors coated with a red non-flammable lacquer which provides electrical, mechanical and climatic protection.

- 5% Tolerance
- 1W Rated
- Resistant to all cleaning solvents in accordance with MIL-STD 202E method 215, and IEC68-2-45
- Supplied in packs of 10 or banded in boxes of 1000

Technical specification	
Power rating @ 70°C	1W
Tolerance	±5%
Temperature coefficient	±250ppm/°C
Climatic category	55/155/16
Voltage rating	350V (DC or RMS)
Operating temperature	-55°C to +155°C

Pack of 10

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-680R							
1R	62-6320	15R	62-6330	68R	62-6338	330R	62-6346
2R2	62-6322	33R	62-6334	100R	62-6340	470R	62-6348
4R7	62-6326	47R	62-6336	220R	62-6344	680R	62-6350
10R	62-6328						
1K-1M							
1K	62-6352	4K7	62-6360	15K	62-6366	100K	62-6376
2K2	62-6356	10K	62-6364	22K	62-6368	1M	62-6388
		Order code	1+	10+	50+		
Box of 1000	ALL CODES	0.70	0.60	0.55			

Box of 1000

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-680R							
1R	62-6420	15R	62-6430	68R	62-6438	330R	62-6446
2R2	62-6422	33R	62-6434	100R	62-6440	470R	62-6448
4R7	62-6426	47R	62-6436	220R	62-6444	680R	62-6450
10R	62-6428						
1K-1M							
1K	62-6452	4K7	62-6460	15K	62-6466	100K	62-6476
1K5	62-6454	10K	62-6464	22K	62-6468	1M	62-6488
2K2	62-6456						
		Order code	1+	5+	10+		
Box of 1000	ALL CODES	35.00	32.00	29.00			

Other items available:

Value (Ω)	Order code	1+	3+	10+
33K	62-6470	46.95	41.25	36.25



MF200 2W 1% Metal film resistors



Metal film resistors with a 2W rating that are covered in a flameproof coating. These resistors are designed as an alternative to metal oxide film resistors and wirewound resistors where a smaller size component is required.

- 2W Rated
- Flame retardant coating
- Meets MIL-R-10509F

Technical specification	
Power rating at +70°C	2W
Tolerance	1%
Temperature range	-55°C to +155°C
Max. working voltage	500V
Max. overload voltage	1000V
Dielectric withstand voltage	1000V
Dimensions (mm)	15 x 5 x 35

Small quantities

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R	62-7265	68R	62-7274	4K7	62-7283	150K	62-7292
2R2	62-7266	100R	62-7275	6K8	62-7284	220K	62-7293
3R3	62-7267	330R	62-7276	10K	62-7285	330K	62-7294
4R7	62-7268	470R	62-7277	15K	62-7286	470K	62-7295
10R	62-7269	680R	62-7278	22K	62-7287	680K	62-7296
15R	62-7270	820R	62-7279	33K	62-7288	1M	62-7297
22R	62-7271	1K	62-7280	47K	62-7289		
33R	62-7272	2K2	62-7281	68K	62-7290		
47R	62-7273	3K3	62-7282	100K	62-7291		
		Order code	1+	10+	100+	500+	
Small quantities	ALL CODES	0.07	0.06	0.055	0.05		

Box of 1000

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R	62-7298	68R	62-7307	6K8	62-7317	100K	62-7324
2R2	62-7299	100R	62-7308	10K	62-7318	150K	62-7325
3R3	62-7300	330R	62-7309	15K	62-7319	220K	62-7326
4R7	62-7301	470R	62-7310	22K	62-7320	330K	62-7327
10R	62-7302	680R	62-7311	33K	62-7321	470K	62-7328
15R	62-7303	820R	62-7312	47K	62-7322	680K	62-7329
22R	62-7304	1K	62-7313	68K	62-7323	1M	62-7330
33R	62-7305	2K2	62-7314				
47R	62-7306	4K7	62-7316				
		Order code	1+	3+	10+		
Box of 1000	ALL CODES	49.95	44.95	39.95			



PR02 2W Metal film power resistors



Industry standard high power metal film resistors coated with a red non-flammable lacquer which provides electrical, climate and mechanical protection.

- Resistant to all cleaning solvents in accordance with MIL-STD method 215 and IEC68-2-45
- Supplied in packs of 10 or banded in boxes of 1000

Technical specification	
Power rating @ 70°C	2W
Tolerance	±5%
Temperature coefficient	±250ppm/°C
Climatic category	55/155/16
Voltage rating	550V (DC or RMS)
Operating temperature	-55°C to +155°C
Dimensions	12mm length max., 3.9 mm diameter max.

Pack of 10

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-470R							
1R	62-6700	10R	62-6708	33R	62-6714	100R	62-6720
2R2	62-6702	15R	62-6710	47R	62-6716	330R	62-6726
3R3	62-6704	22R	62-6712	68R	62-6718	470R	62-6728
4R7	62-6706						
1K-1M							
1K	62-6732	10K	62-6744	47K	62-6752	330K	62-6762
2K2	62-6736	15K	62-6746	68K	62-6754	470K	62-6764
3K3	62-6738	22K	62-6748	100K	62-6756	680K	62-6766
4K7	62-6740	33K	62-6750	220K	62-6760	1M	62-6768
6K8	62-6742						
		Order code	1+	10+	50+		
Box of 1000	ALL CODES	1.50	1.10	0.80			

Box of 1000

Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
1R-470R							
1R	62-6770	10R	62-6778	33R	62-6784	100R	62-6790
2R2	62-6772	15R	62-6780	47R	62-6786	330R	62-6796
3R3	62-6774	22R	62-6782	68R	62-6788	470R	62-6798
4R7	62-6776						
1K-1M							
1K	62-6802	6K8	62-6812	33K	62-6820	220K	62-6830
2K2	62-6806	10K	62-6814	47K	62-6822	470K	62-6834
3K3	62-6808	15K	62-6816	68K	62-6824	680K	62-6836
4K7	62-6810	22K	62-6818	100K	62-6826	1M	62-6838
		Order code	1+	5+	10+		
Box of 1000	ALL CODES	72.00	67.00	61.00			

Page 578



LED Driver

From £21.95 55-1975



Low ohmic resistors



MSR Bare element low ohmic resistors

These bare element resistors are constructed from a special alloy element with welded, copper-clad steel leads. They are ideal for current sensing and shunt applications.

- Built-in stand-offs and standard lead spacing for easy mounting
- Flameproof construction
- Available in a range of values in three power ratings
- Low inductance
- High tolerance 1%
- Arcol MSR series



Technical specification	
Type	MSR 1 MSR 3 MSR 5
Rated dissipation at 85°C	1W 3W 5W
Tolerance on rated resistance	±1% ±1% ±1%
Resistance range	0.005Ω to 0.5Ω 0.005Ω to 0.1Ω 0.005Ω to 0.05Ω
Temperature coefficient	20ppm/°C 20ppm/°C 20ppm/°C
Inductance	<10nH <10nH <10nH
Operating temperature max.	+275°C +275°C +275°C
Lead spacing (mm)	11.43 15.24 20.32
Height (mm)	5.08 25.4 25.4

Value (Ω)	Order code	1+	50+	250+	1000+
MSR-1 type					
R005	63-2456	0.49	0.45	0.41	0.37
R01	63-2457	0.49	0.45	0.41	0.37
R02	63-2458	0.49	0.45	0.41	0.37
R025	63-2459	0.49	0.45	0.41	0.37
R03	63-2460	0.49	0.45	0.41	0.37
R04	63-2461	0.49	0.45	0.41	0.37
R05	63-2462	0.49	0.45	0.41	0.37
MSR-3 type					
R005	63-2463	0.49	0.45	0.41	0.37
R01	63-2464	0.49	0.45	0.41	0.37
R015	63-2465	0.49	0.45	0.41	0.37
R02	63-2466	0.49	0.45	0.41	0.37
R025	63-2467	0.49	0.45	0.41	0.37
R03	63-2468	0.49	0.45	0.41	0.37
R04	63-2469	0.49	0.45	0.41	0.37
R05	63-2470	0.49	0.45	0.41	0.37
R1	63-2471	0.49	0.45	0.41	0.37
MSR-5 type					
R005	63-2472	0.49	0.45	0.41	0.37
R01	63-2473	0.49	0.45	0.41	0.37
R015	63-2474	0.49	0.45	0.41	0.37
R02	63-2475	0.49	0.45	0.41	0.37
R025	63-2476	0.49	0.45	0.41	0.37
R05	63-2477	0.49	0.45	0.41	0.37

Yageo 4W Low ohmic resistors

Ceramic cased non-inductive high power resistors with low temperature coefficient.

- Ideal for use in current sensing applications such as power supplies, overload sensing and motor control
- VTM KN350-8 series



Technical specification	
Dimensions	18 x 6.4mm
Power rating @ 70°C	4W
Resistance tolerance	(derate to zero at 250°C)
Temperature coefficient	±5%
Max working voltage	250 to +550ppm/°C
	where P = power rating at 70°C
	R = resistance value
Insulation voltage	2000V AC
Insulation resistance	>10,000MΩ
Operating temperature range	-55°C to +250°C

Type	Order code	1+	25+	100+	500+
OR010	62-7100	0.63	0.55	0.487	0.45
OR015	62-7102	0.63	0.55	0.487	0.45
OR022	62-7104	0.63	0.55	0.487	0.45
OR033	62-7106	0.63	0.55	0.487	0.45
OR047	62-7108	0.63	0.55	0.487	0.45
OR051	62-7110	0.63	0.55	0.487	0.45

Power resistors



3W Wirewound resistors



3W wirewound resistors wound on a ceramic former with flame retardant silicone resin coating.

- 5% tolerance
- 3W rated

Technical specification	
Power rating @ 70°C	3W (derate to zero @ 275°C)
Resistance tolerance	5%
Max. temp coefficient	±300ppm/°C
Temperature range	-40°C to +200°C
Dimensions:	body leads 15.0(L) x 5.0(D)mm 35(L) x 0.8(D)mm

Value (Ω)	Order code	1+	100+	500+	1000+
0.1R	62-0210	0.18	0.1272	0.0986	0.0901
0.15R	62-0266	0.18	0.1272	0.0986	0.0901
0.18R	62-0267	0.18	0.1272	0.0986	0.0901
0.22R	62-0215	0.18	0.1272	0.0986	0.0901
0.33R	62-0220	0.18	0.1272	0.0986	0.0901
0.47R	62-0225	0.14	0.0954	0.0795	0.0721
0.56R	62-0268	0.18	0.1272	0.0986	0.0901
1R	62-0230	0.14	0.0954	0.0795	0.0721
1R5	62-0270	0.18	0.1272	0.0986	0.0901
2R	62-0271	0.18	0.1272	0.0986	0.0901
2R2	62-0235	0.18	0.1272	0.0986	0.0901
3R3	62-0272	0.18	0.1272	0.0986	0.0901
4R7	62-0240	0.18	0.1272	0.0986	0.0901
6R8	62-0275	0.18	0.1272	0.0986	0.0901
10R	62-0245	0.18	0.1272	0.0986	0.0901
22R	62-0250	0.18	0.1272	0.0986	0.0901
47R	62-0255	0.18	0.1272	0.0986	0.0901
100R	62-0260	0.18	0.1272	0.0986	0.0901
150R	62-0265	0.18	0.1272	0.0986	0.0901



3W Metal oxide resistors



Metal oxide power resistors offering a 3W rating in a flame retardant coated package. Ideal replacements for metal film or low power wirewound resistors.

- Excellent stability and reliability
- Flame retardant coating
- Meets requirements of MIL-R-22684B

Technical specification	
Dimensions	17 x 6mm
Power rating at 70°C	3W (derate to zero at +200°C)
Tolerance	5%
Temperature coefficient	±350ppm
Temperature range	-55°C to +155°C
Max. working voltage	500V

Smaller quantities					
Value (Ω)	Order code	Value (Ω)	Order code	Value (Ω)	Order code
10R	62-7112	180R	62-7132	1K2	62-7150
15R	62-7114	220R	62-7134	1K5	62-7152
22R	62-7116	270R	62-7136	1K8	62-7154
27R	62-7118	330R	62-7138	2K2	62-7156
33R	62-7120	390R	62-7140	2K7	62-7158
47R	62-7122	470R	62-7142	3K3	62-7160
56R	62-7124	560R	62-7144	4K7	62-7162
68R	62-7126	680R	62-7146	6K8	62-7164
82R	62-7128	1K	62-7148	10K	62-7166
100R	62-7130				

Smaller quantities	Order code	1+	100+	500+	1000+
	ALL CODES	0.10	0.08	0.068	0.062



5W Axial ceramic resistors



Axial wirewound ceramic 5W power resistors.

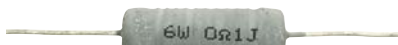
- Heat and flame resistant
- 5W power rating

Technical specification	
Dimensions	22 x 10 x 9mm
Power rating at 70°C	5W
Resistance tolerance	5%
Temperature coefficient	±300ppm/°C
Temperature range	-55°C to +155°C
Max. working voltage	350V

Type	Order code	1+	25+	100+	500+
R33	62-8220	0.08	0.0636	0.053	0.0456
R47	62-8222	0.08	0.0636	0.053	0.0456
1R	62-8224	0.08	0.0636	0.053	0.0456
4R7	62-8226	0.08	0.0636	0.053	0.0456
10R	62-8228	0.08	0.0636	0.053	0.0456
22R	62-8230	0.08	0.0636	0.053	0.0456
33R	62-8232	0.08	0.0636	0.053	0.0456
47R	62-8234	0.08	0.0636	0.053	0.0456
100R	62-8236	0.08	0.0636	0.053	0.0456
470R	62-8238	0.08	0.0636	0.053	0.0456
1K	62-8240	0.08	0.0636	0.053	0.0456



6W Wirewound resistors



Wirewound power resistors rated at 6W.

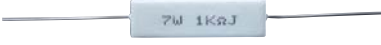
- Flame retardant coating
- 6W power rating

Technical specification	
Dimensions	24 x 8mm
Power rating	6W
Resistance tolerance	±5%
Temperature coefficient	±300ppm/°C
Max. working voltage	350V
Temperature range	-55°C to +155°C

Value (Ω)	Order code	1+	25+	100+	500+
0.1R	62-8351	0.34	0.265	0.2247	0.1919
0.22R	62-8352	0.34	0.265	0.2247	0.1919
1R	62-8310	0.34	0.265	0.2247	0.1919
4R7	62-8318	0.34	0.265	0.2247	0.1919
5R6	62-8319	0.34	0.265	0.2247	0.1919
6R8	62-8320	0.34	0.265	0.2247	0.1919
10R	62-8322	0.34	0.265	0.2247	0.1919
15R	62-8324	0.34	0.265	0.2247	0.1919
18R	62-8325	0.34	0.265	0.2247	0.1919
22R	62-8326	0.34	0.265	0.2247	0.1919
33R	62-8328	0.34	0.265	0.2247	0.1919
47R	62-8330	0.34	0.265	0.2247	0.1919
68R	62-8332	0.34	0.265	0.2247	0.1919
100R	62-8334	0.34	0.265	0.2247	0.1919
150R	62-8336	0.34	0.265	0.2247	0.1919
180R	62-8358	0.34	0.265	0.2247	0.1919
220R	62-8338	0.34	0.265	0.2247	0.1919
330R	62-8340	0.34	0.265	0.2247	0.1919
470R	62-8342	0.34	0.265	0.2247	0.1919
680R	62-8344	0.34	0.265	0.2247	0.1919
1K	62-8346	0.27	0.212	0.1802	0.1537
1K5	62-8348	0.34	0.265	0.2247	0.1919
2K2	62-8350	0.27	0.212	0.1802	0.1537
2K7	62-8361	0.50	0.4134	0.3572	0.2915
3K3	62-8362	0.50	0.4134	0.3572	0.2915
3K9	62-8363	0.50	0.4134	0.3572	0.2915
4K7	62-8364	0.50	0.4134	0.3572	0.2915
5K6	62-8365	0.71	0.636	0.5692	0.5162
6K8	62-8366	0.2864			
7K5	62-8367	0.3182			



7W Axial ceramic resistor



Axial ceramic 7W power resistors.

- Heat and flame resistant
- 7W power rating

Technical specification	
Dimensions	35 x 10 x 9mm
Power rating at 70°C	7W
Resistance tolerance	5%
Temperature coefficient	±300ppm/°C
Temperature range	-55°C to +155°C
Max. working voltage	500V

Type	Order code	1+	25+	100+	500+
R47	62-8250	0.15	0.106	0.0922	0.0795
1R	62-8252	0.15	0.106	0.0922	0.0795
4R7	62-8254	0.15	0.106	0.0922	0.0795
10R	62-8256	0.15	0.106	0.0922	0.0795
22R	62-8258	0.15	0.106	0.0922	0.0795
33R	62-8260	0.15	0.106	0.0922	0.0795
47R	62-8262	0.15	0.106	0.0922	0.0795
100R	62-8264	0.15	0.106	0.0922	0.0795
1K	62-8268	0.15	0.106	0.0922	0.0795
4K7	62-8270	0.15	0.106	0.0922	0.0795
10K	62-8272	0.15	0.106	0.0922	0.0795
22K	62-8274	0.15	0.106	0.0922	0.0795



5W Radial ceramic resistors

Radial wirewound ceramic 5W power resistors with a 5mm pitch. These resistors enable high power to be dissipated within minimum board space.

- Heat and flame resistant
- 25mm high
- 5mm pitch



Technical specification	
Dimensions	25 x 12.5 x 9mm
Pitch	5mm
Power rating at 70°C	5W (derate to zero at +155°C)
Resistance tolerance	5%
Temperature coefficient	±300ppm/°C
Temperature range	-55°C to +155°C

Type	Order code	1+	25+	100+	500+
OR47	62-8290	0.13	0.106	0.0859	0.0721
1R	62-8292	0.13	0.106	0.0859	0.0721
4R7	62-8294	0.13	0.106	0.0859	0.0721
10R	62-8296	0.13	0.106	0.0859	0.0721
47R	62-8298	0.13	0.106	0.0859	0.0721
100R	62-8300	0.13	0.106	0.0859	0.0721

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Capacitors section

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ARCOL

Aluminium clad wirewound resistors

High power, aluminium clad resistors designed for applications requiring high power dissipation in a limited space. These resistors are designed for direct heatsink mounting using thermal compound to achieve maximum performance.



- Resistance tolerance 5%
- High power to volume
- Wound to maximise high pulse capacity
- Temperature coefficient = 1k 100ppm/°C, >1k 25ppm/°C
- Solder terminations
- Wide range of resistances
- 10W, 25W, 50W, 100W, 200W or 300W versions
- Manufactured in line with the requirements of **IEC 115** and **MIL 18546**

Technical specification

Electrical specifications

	HS10	HS25	HS50	HS100	HS200	HS300
Power rating @25°C	10W	25W	50W	100W	200W	300W
Max AC working voltage	160V	550V	1250V	1900V	1900V	2500V

Mechanical specifications

Dimensions (body) (mm)	L	H	D	HS10	HS25	HS50	HS100	HS200	HS300	
	15.9	8.8	8.5	27.3	14.6	14	49.1	65.2	89.7	127.7
Fixing centres (mm)	11.3 x 12.4	18.3 x 19.8	x2	39.7 x 21.4	x2	35.0 x 37.0	x4	70.0 x 57.2	x6	104.0 x 59.0
Fixing holes										
Standard heatsink area (cm ²)	415	535		535		695		3750		5780

Value	Order code	1+	10+	25+	50+
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10W					
0R1	62-8071	0.74	0.70	0.65	0.62
0R47	62-8072	0.74	0.70	0.65	0.62
0R5	62-8073	0.74	0.70	0.65	0.62
1R	62-8074	0.74	0.70	0.65	0.62
2R2	62-8075	0.74	0.70	0.65	0.62
3R3	62-8076	0.74	0.70	0.65	0.62
5R	62-8077	0.74	0.70	0.65	0.62
22R	62-8078	0.74	0.70	0.65	0.62
330R	62-8079	0.74	0.70	0.65	0.62

25W					
0R1	62-8100	1.14	1.01	0.90	0.85
0R22	62-8102	1.14	1.01	0.90	0.85
0R47	62-8104	1.14	1.01	0.90	0.85
1R	62-8106	1.14	1.01	0.90	0.85
2R2	62-8108	1.14	1.01	0.90	0.85
3R3	62-8109	1.14	1.01	0.90	0.85
4R7	62-8110	1.14	1.01	0.90	0.85
6R8	62-8111	1.14	1.01	0.90	0.85
10R	62-8112	1.14	1.01	0.90	0.85
22R	62-8114	1.14	1.01	0.90	0.85
33R	62-8116	1.14	1.01	0.90	0.85
47R	62-8118	1.14	1.01	0.90	0.85
68R	62-8120	1.14	1.01	0.90	0.85
100R	62-8122	1.14	1.01	0.90	0.85
220R	62-8124	1.14	1.01	0.90	0.85
470R	62-8126	1.14	1.01	0.90	0.85
1K	62-8128	1.14	1.01	0.90	0.85
4K7	62-8130	1.14	1.01	0.90	0.85

50W					
0R05	62-8132	1.37	1.30	1.19	1.08
0R1	62-8134	1.37	1.30	1.19	1.08
0R47	62-8136	1.37	1.30	1.19	1.08
0R68	62-8138	1.37	1.30	1.19	1.08
1R	62-8140	1.37	1.30	1.19	1.08
2R2	62-8142	1.37	1.30	1.19	1.08
3R3	62-8144	1.37	1.30	1.19	1.08
4R7	62-8146	1.29	1.17	1.08	0.98
6R8	62-8148	1.37	1.30	1.19	1.08
10R	62-8150	1.37	1.30	1.19	1.08
15R	62-8152	1.37	1.30	1.19	1.08
22R	62-8154	1.37	1.30	1.19	1.08
33R	62-8156	1.37	1.30	1.19	1.08
47R	62-8158	1.37	1.30	1.19	1.08
68R	62-8160	1.13	1.02	0.94	0.85
100R	62-8162	1.37	1.30	1.19	1.08
220R	62-8164	1.29	1.17	1.08	0.98
470R	62-8166	1.37	1.30	1.19	1.08
1K	62-8168	1.37	1.30	1.19	1.08

100W					
0R1	62-8170	3.65	3.30	3.10	2.95
0R22	62-8172	3.65	3.30	3.10	2.95
0R47	62-8174	3.65	3.30	3.10	2.95
1R	62-8176	3.65	3.30	3.10	2.95
1R5	62-8178	3.65	3.30	3.10	2.95
2R2	62-8180	3.65	3.30	3.10	2.95
3R3	62-8182	3.65	3.30	3.10	2.95
4R7	62-8184	3.65	3.30	3.10	2.95
6R8	62-8186	3.65	3.30	3.10	2.95

100W					
10R	62-8188	3.65	3.30	3.10	2.95
15R	62-8190	3.65	3.30	3.10	2.95
22R	62-8192	3.65	3.30	3.10	2.95
33R	62-8194	3.65	3.30	3.10	2.95
47R	62-8196	3.65	3.30	3.10	2.95
68R	62-8198	3.65	3.30	3.10	2.95
100R	62-8200	3.65	3.30	3.10	2.95
220R	62-8202	3.65	3.30	3.10	2.95
470R	62-8204	3.65	3.30	3.10	2.95
1K	62-8206	3.65	3.30	3.10	2.95

200W					
0R1	62-8080	12.50	11.50	10.50	9.50
0R47	62-8081	12.50	11.50	10.50	9.50
2R2	62-8083	11.80	10.90	10.10	8.90
3R3	62-8084	12.50	11.50	10.50	9.50
6R8	62-8085	12.50	11.50	10.50	9.50
10R	62-8086	12.50	11.50	10.50	9.50
33R	62-8087	12.50	11.50	10.50	9.50
82R	62-8088	12.50	11.50	10.50	9.50
100R	62-8089	12.50	11.50	10.50	9.50
470R	62-8090	12.50	11.50	10.50	9.50

300W					
1R	62-8091	15.00	13.90	13.00	11.30
4R7	62-8092	15.00	13.90	13.00	11.30
6R8	62-8093	15.00	13.90	13.00	11.30
10R	62-8094	15.00	13.90	13.00	11.30
75R	62-8095	15.00	13.90	13.00	11.30
100R	62-8096	15.00	13.90	13.00	11.30
250R	62-8097	15.00	13.90	13.00	11.30
330R	62-8098	15.00	13.90	13.00	11.30
680R	62-8099	15.00	13.90	13.00	11.30

ARCOL

Vitreous enamelled power resistors

These high power resistors have a nickel-chrome winding that is protected by several coats of enamel, which has been fired to produce a resistor that features high reliability and the capability to withstand adverse conditions.

- Horizontal mounting types
- Wire wound (PE) or corrugated tape (PT) types
- Available in several power ratings
- Also available with vertical or through bolt mounting or with ferrule clips (contact Rapid for details)
- Arcol PE and PT series



Technical specification

Order code	Value (Ω)	Power rating (W)	Tolerance	Length max. (mm)	Fixing centres (mm)	Depth (mm)	Mfrs. pt. no.
62-8004	2R2	30	10%	72	62	16	PE30H 2R2
62-8005	4R7	30	10%	72	62	16	PE30H 4R7
62-8006	6R8	30	10%	72	62	16	PE30H 6R8
62-8007	10R	30	10%	72	62	16	PE30H 10R
62-8008	100R	30	5%	72	62	16	PE30H 100R
62-8009	130R	30	5%	72	62	16	PE30H 130R
62-8010	10R	60	5%	110	94	28	PE60H 10R
62-8011	33R	60	5%	110	94	28	PE60H 33R
62-8012	1K0	60	5%	110	94	28	PE60H 1K
62-8013	1K5	60	5%	110	94	28	PE60H 1K5
62-8015	33R	90	5%	142	126	28	PE90H 33R
62-8016	1K0	90	5%	142	126	28	PE90H 1K
62-8017	1K5	90	5%	142	126	28	PE90H 1K5
62-8020	44R	180	5%	256	240	28	PE180H 44R
62-8021	100R	180	5%	256	240	28	PE180H 100R
62-8022	1K0	180	5%	256	240	28	PE180H 1K
62-8023	1K5	180	5%	256	240	28	PE180H 1K5
62-8024	10R	180	10%	256	240	28	PT180H 10R
62-8025	20R	180	10%	256	240	28	PT180H 20R

Value (Ω)	Order code	1+	5+	10+	50+
30W					
2R2	62-8004	11.90	10.50	9.90	9.40
4R7	62-8005	11.90	10.50	9.90	9.40
6R8	62-8006	11.90	10.50	9.90	9.40
10R	62-8007	11.90	10.50	9.90	9.40
100R	62-8008	11.90	10.50	9.90	9.40
130R	62-8009	11.90	10.50	9.90	9.40

60W					
10R	62-8010	13.70	12.20	11.50	10.90
33R	62-8011	13.70	12.20	11.50	10.90
1K	62-8012	13.70	12.20	11.50	10.90
1K5	62-8013	13.70	12.20	11.50	10.90
33R	62-8015	14.95	13.50	12.80	11.95
1K	62-8016	14.95	13.50	12.80	11.95
1K5	62-8017	14.95	13.50	12.80	11.95

180W					
10R	62-8024	25.90	23.40	22.00	20.70
20R	62-8025	25.90	23.40	22.00	20.70
44R	62-8020	23.20	20.80	19.70	18.50
100R	62-8021	23.20	20.80	19.70	18.50
1K	62-8022	23.20	20.80	19.70	18.50
1K5	62-8023	23.20	20.80	19.70	18.50

ARCOL

100W/250W 5% Thick film power resistors

A range of heatsink mountable, thick film type power resistors that, due to their non-inductive design, are suitable for a high frequency and pulse load applications.

- Available in 100W or 250W rating
- 5% tolerance
- Direct heatsink mounting packages
- High power capability in a small footprint
- Suitable for HF applications
- Also available in 4 terminal, parallel or series versions (contact **Rapid** for details)
- **Arcol FPA** series



Technical specification

	100W	250W
Temperature coefficient	100ppm/°C	100ppm/°C
Working voltage max.	1kV AC rms	5kV AC rms
Dielectric strength	4kV	7kV
Thermal resistance	0.35°C/W	0.15°C/W
Contact torque (static)	1.3Nm	2Nm
Base plate torque (static)	1.5Nm	1.8Nm
Working temperature range	-55°C to +155°C	-55°C to +155°C
Dimensions (mm)	38.2 x 25.4 x 9.1	67 x 60 x 21.5
Fixing centres (mm)	30.3	57

Order code	Mfrs. pt. no.	Order code	Mfrs. pt. no.	Order code	Mfrs. pt. no.
62-7970	FPA100 2R2	62-7982	FPA100 1K	-	-
62-7971	FPA100 4R7	62-7983	FPA100 2K2	62-7995	FPA250 220R
62-7972	FPA100 6R8	62-7984	FPA100 4K7	62-7996	FPA250 470R
62-7973	FPA100 10R	-	-	62-7997	FPA250 680R
62-7974	FPA100 15R	62-7986	FPA100 10K	62-7998	FPA250 100K
62-7975	FPA100 22R	62-7987	FPA250 1R0	62-7999	FPA250 2K2
62-7976	FPA100 47R	62-7988	FPA250 2R2	62-8000	FPA250 4K7
62-7977	FPA100 68R	62-7989	FPA250 2R7	62-8001	FPA250 10K
62-7978	FPA100 100R	62-7990	FPA250 10R	62-8002	FPA250 47K
62-7979	FPA100 220R	62-7991	FPA250 15R	62-8003	FPA250 100K
62-7980	FPA100 470R	62-7992	FPA250 22R	-	-
62-7981	FPA100 680R	62-7993	FPA250 47R	-	-

Value (Ω)	Order code	1+	5+	10+	50+
100W					
2R2	62-7970	7.90	7.13	6.62	6.18
4R7	62-7971	7.90	7.13	6.62	6.18
6R8	62-7972	7.90	7.13	6.62	6.18
10R	62-7973	7.90	7.13	6.62	6.18
15R	62-7974	7.90	7.13	6.62	6.18
22R	62-7975	7.90	7.13	6.62	6.18
47R	62-7976	7.90	7.13	6.62	6.18
68R	62-7977	7.90	7.13	6.62	6.18
220R	62-7979	7.90	7.13	6.62	6.18
470R	62-7980	7.90	7.13	6.62	6.18
680R	62-7981	7.90	7.13	6.62	6.18
1K	62-7982	7.90	7.13	6.62	6.18
2K2	62-7983	7.90	7.13	6.62	6.18
4K7	62-7984	7.90	7.13	6.62	6.18
10K	62-7986	7.90	7.13	6.62	6.18
250W					
1R0	62-7987	33.50	30.00	28.00	26.50
2R2	62-7988	33.50	30.00	28.00	26.50
2R7	62-7989	33.50	30.00	28.00	26.50
10R	62-7990	33.50	30.00	28.00	26.50
15R	62-7991	33.50	30.00	28.00	26.50
22R	62-7992	33.50	30.00	28.00	26.50
47R	62-7993	33.50	30.00	28.00	26.50
220R	62-7995	33.50	30.00	28.00	26.50
470R	62-7996	33.50	30.00	28.00	26.50
680R	62-7997	33.50	30.00	28.00	26.50
1K0	62-7998	33.50	30.00	28.00	26.50
2K2	62-7999	33.50	30.00	28.00	26.50
4K7	62-8000	33.50	30.00	28.00	26.50
10K	62-8001	33.50	30.00	28.00	26.50
47K	62-8002	33.50	30.00	28.00	26.50
100K	62-8003	33.50	30.00	28.00	26.50

Electronic components

24

Resistors & potentiometers

Page 574



MR16

50,000 hours operational life

From

£4.95

55-2035/55-2037



20W High power resistors T0-126

A range of non-inductive 20W high power resistors in a T0-126 style package. Their small size and low thermal resistance make them suitable for applications such as: high frequency emitter resistors in switching power supplies, colour CRTs, high frequency snubber and pulse handling circuits, VHF amplifiers and pulse generator load resistors.

- Very low thermal resistance - just 5.9°C/W
- Superior vibration durability
- Small thin T0-126 type package for high density PCB installation



Technical specification

Parameter	Value	Condition
Power rating	20W	Tab temp <25°C
Power rating	1W	Free air
Thermal resistance	5.9°C/W	Hot spot to tab
Temperature coefficient	250ppm/°C	0.02Ω to 0.075Ω
	100ppm/°C	0.1Ω to 5Ω
	50ppm/°C	10Ω to 1kΩ
Tolerance	±5%	0.02Ω to 0.075Ω
	±1%	0.1Ω to 1kΩ
Dielectric withstanding voltage	2000V DC	60s
Insulation resistance	>1000MΩ	
Operational temperature range	-55°C to +155°C	

Note: For 220Ω and above the power rating is restricted to 10W

Value (Ω)	Order code	1+
OR05	62-0002	1.05



35W High power resistors T0-220

A range of non-inductive 35W high power resistors in a T0-220 style package. Their small size and low thermal resistance make them suitable for applications such as: high frequency circuits and high speed pulse designs, switch mode power supplies, motor control and drive circuits, automotive, industrial computing and measurement systems.

- Uses thin film technology
- Very low thermal resistance - just 3.3°C/W
- Superior vibration durability
- Small thin T0-126 type package for high density PCB installation



Technical specification

Parameter	Value	Condition
Power rating	35W	<+25°C flange temperature
Power rating	2.25W	Free air
Thermal resistance	3.3°C/W	Hot spot to tab
Temperature coefficient	250ppm/°C	0.02Ω to 0.075Ω
	100ppm/°C	0.1Ω to 5Ω
	50ppm/°C	10Ω to 2kΩ
Tolerance	±5%	0.02Ω to 0.075Ω
	±1%	0.1Ω to 2kΩ
Dielectric withstanding voltage	2000V DC	60s
Insulation resistance	>1000MΩ	
Operational temperature range	-55°C to +155°C	

Note: For 220Ω and above the power rating is restricted to 20W

Value (Ω)	Order code	1+	10+	25+	100+
OR05	62-0023	1.95	1.56	1.42	1.30



100W High power resistors T0-247

A range of non-inductive 100W high power resistors in a T0-247 style package. Their small size and low thermal resistance make them suitable for applications such as: high frequency circuits and wide band/linear amplifiers, switch mode and industrial RF power sources, AC motor control, electronic load and drive circuits, automotive, IPM and measurement systems, RF circuit terminations, constant current and precision voltage sources.

- Extremely low thermal resistance - just 1.3°C/W
- Superior vibration durability
- Small thin T0-247 type package for high density PCB installation



Technical specification

Parameter	Value	Condition
Power rating	100W	Tab Temp <25°C
Power rating	3W	Free air
Thermal resistance	1.3°C/W	Hot spot to tab
Temperature coefficient	250ppm/°C	0.05Ω
	100ppm/°C	0.1Ω to 5Ω
	50ppm/°C	10Ω to 120Ω
Tolerance	±5%	0.05Ω
	±1%	10Ω to 120Ω
Dielectric withstanding voltage	2500V DC	60s
Insulation resistance	>1000MΩ	
Operational temperature range	-55°C to +155°C	

Type	Order code	1+
75R	62-0057	2.15
120R	62-0059	2.15

Potentiometers



12.7mm Square 1W cermet potentiometers

- Spectral potentiometers for PCB or panel mounting.
- Metal bush with slotted metal shaft (supplied with metal lock washer and nut)
 - Shaft diameter 6.35mm (0.25in)
 - Linear law
 - Smooth fed adjustment over full 300° ± 5° mechanical rotation cycle
 - **Spectral 149 series**, single gang



Technical specification	
Pitch	2.54mm
Shaft diameter	6.38mm
Shaft length to thread	13mm
Thread length	9.52mm
Resistance range:	linear 100Ω to 2.0MΩ
	non-linear 250Ω to 1MΩ
Tolerance	±10%
Power rating	1W 70°C
Maximum working voltage	350V AC
Mechanical rotation	300° ± 5°
Electrical rotation	70° ± 10° (without switch)
Dielectric strength	750V AC (sea level)
Operating temperature	-40°C to +150°C
Storage temperature	-55°C to +150°C
Rotational load life	25,000 cycles

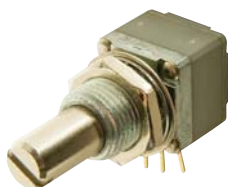
Type	Order code	1+	10+	50+	100+
100R	68-2000	4.70	4.40	4.00	3.50
250R	68-2002	4.70	4.40	4.00	3.50
500R	68-2004	4.70	4.40	4.00	3.50
2K5	68-2008	5.88	5.50	5.00	4.375
5K	68-2010	5.88	5.50	5.00	4.375
10K	68-2012	5.88	5.50	5.00	4.38
50K	68-2016	5.88	5.50	5.00	4.375
100K	68-2018	5.88	5.50	5.00	4.375
250K	68-2020	4.70	4.40	4.00	3.50
1M	68-2024	4.70	4.40	4.00	3.50



0.5W 12.7mm Rotary potentiometers

A range of side adjustable, rotary potentiometers that feature a 12.7mm square body and dust proof construction. These components have a conductive plastic element that provides excellent linearity.

- Power rating 0.5W
- Tolerance ±10%
- Available in Lin or Log versions
- 12.7mm square body for panel mounting
- Side adjusting
- Single gang
- Metal 9.5mm bushing size and length
- Slotted metal shaft 6.35mm x 20mm length
- PCB Leads (solder lug leads for 68-1191)
- Dustproof **IP50** rating
- **TT Electronics P260P/P261P series**



Technical specification	
Tolerance	±10%
Residual resistance max.	2Ω
Input voltage max.	350V AC
Power rating	0.5W
Dielectric strength	1500V AC
Insulation resistance min.	1000MΩ
Rotational life	1,000,000 cycles
Operating temperature range	-55°C to +125°C

Order code	Value (Ω)	Mfrs. pt. no.	1+	25+	50+	100+
Lin						
68-1189	1K	P260P-D1BS3CB1K	1.65	1.40	1.30	1.20
68-1176	2K5	P260P-D1BS3CB2.5K	1.65	1.40	1.30	1.20
68-1177	5K	P260P-D1BS3CB5K	1.65	1.40	1.30	1.20
68-1178 (PCB leads)	10K	P260P-D1BS3CB10K	1.65	1.40	1.30	1.20
68-1191 (solder lugs)	10K	P261P-D1BS3CB10K	1.65	1.40	1.30	1.20
68-1179	25K	P260P-D1BS3CB25K	1.65	1.40	1.30	1.20
68-1180	50K	P260P-D1BS3CB50K	1.65	1.40	1.30	1.20
68-1181	100K	P260P-D1BS3CB100K	1.65	1.40	1.30	1.20
Log						
68-1182	10K	P260P-D1BS3CA10K	1.65	1.40	1.30	1.20
68-1183	50K	P260P-D1BS3CA50K	1.65	1.40	1.30	1.20
Value (Ω)	Order code	1+	25+	50+	100+	
Lin						
1K	68-1189	1.65	1.40	1.30	1.20	
2K5	68-1176	1.65	1.40	1.30	1.20	
5K	68-1177	1.65	1.40	1.30	1.20	
10K (PCB leads)	68-1178	1.65	1.40	1.30	1.20	
10K Solder lugs)	68-1191	1.65	1.40	1.30	1.20	
25K	68-1179	1.65	1.40	1.30	1.20	
50K	68-1180	1.65	1.40	1.30	1.20	
100K	68-1181	1.65	1.40	1.30	1.20	
Log						
10K	68-1182	1.65	1.40	1.30	1.20	
50K	68-1183	1.65	1.40	1.30	1.20	
500K	68-1190	1.65	1.40	1.30	1.20	

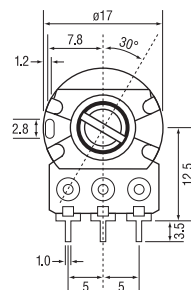
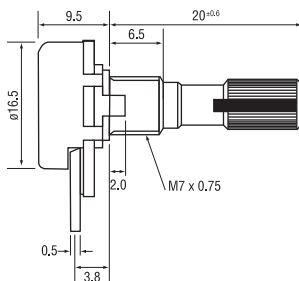
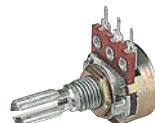
Knobs



16mm Commercial potentiometers

16mm diameter carbon track single potentiometers suitable for PCB mounting offered in a range of popular values.

- Supplied with serrated 6mm shaft



Shaft shown in full C.C.W. position



Technical specification	
Dimensions	17 x 16.5mm
Pitch	5mm
Tolerance	20%
Power rating	0.2W linear, 0.1W log.
Maximum voltage	200V linear, 150V log.
Electrical rotation	300°C ± 5°C
Rotation torque	30-350gm/cm
Temperature range	-25°C to +70°C

Type	Order code	1+	50+	500+
470R lin	65-0700	0.42	0.3498	0.3021
1K lin	65-0705	0.42	0.3498	0.3021
4K7 lin	65-0710	0.42	0.3498	0.3021
10K lin	65-0715	0.42	0.3498	0.3021
22K lin	65-0720	0.42	0.3498	0.3021
47K lin	65-0725	0.42	0.3498	0.3021
100K lin	65-0730	0.42	0.3498	0.3021
220K lin	65-0735	0.42	0.3498	0.3021
470K lin	65-0740	0.42	0.3498	0.3021
1M lin	65-0745	0.42	0.3498	0.3021
4K7 log	65-0810	0.53	0.4452	0.3774
22K log	65-0820	0.40	0.33	0.285
100K log	65-0830	0.40	0.33	0.285
1M log	65-0845	0.42	0.3498	0.3021

LED strips



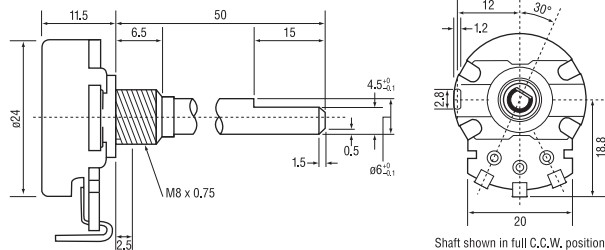
From
£4.25
56-3026

TruOhm

24mm Commercial potentiometers

A low cost carbon track single potentiometer offered in a range of popular values.

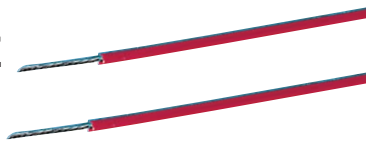
- Standard 6mm diameter spindles in nylon
- Shaft length 50mm
- Body dia. 24mm
- Solder tag termination



Value	Marked	Order code	1+	50+	500+
470Ω lin	B	65-0500	0.57	0.477	0.4102
1K lin	B	65-0505	0.46	0.3816	0.3286
4K7 lin	B	65-0510	0.46	0.3816	0.3286
10K lin	B	65-0515	0.43	0.3604	0.3074
22K lin	B	65-0520	0.46	0.3816	0.3286
4K7 lin	B	65-0525	0.46	0.3816	0.3286
100K lin	B	65-0530	0.46	0.3816	0.3286
220K lin	B	65-0535	0.46	0.3816	0.3286
470K lin	B	65-0540	0.57	0.477	0.4102
1M lin	B	65-0545	0.46	0.3816	0.3286
2M2 lin	B	65-0550	0.57	0.477	0.4102
4K7 log	A	65-0610	0.57	0.477	0.4102
10K log	A	65-0615	0.46	0.3816	0.3286
47K log	A	65-0625	0.57	0.477	0.4102
100K log	A	65-0630	0.57	0.477	0.4102
470K log	A	65-0635	0.57	0.477	0.4102
1M log	A	65-0645	0.57	0.477	0.4102
2M2 log	A	65-0650	0.57	0.477	0.4102

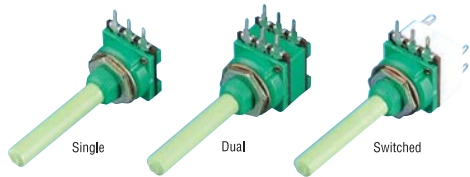
Page 6

Equipment wire



Omeg Miniature 16mm potentiometers

Insulated semi-sealed potentiometers with a conductive plastic resistance track available in single, dual (stereo) and switched options.



- All types are supplied with 6 x 40mm round shafts and PCB pins
- The switched controls feature a DEMKO approved double pole single throw switch

See **Hardware** section for a range of suitable control knobs.

Technical specification	
Tolerance	±20%
Matching (dual controls)	Linear 3dB, log 2dB
Power rating	0.25W linear, 0.12W log
Limiting element voltage	350V DC
Electrical rotation:	single + dual 265° nominal switched 242° nominal
Operating torque	0.4 - 1.5Nm Switched 4.0Nm maximum
Switch contacts	DPST 4A 250V AC/10A 12V DC
Surge rating (0.01s)	80A
Housing material	Glass filled polyester (UL94V-0)
Temperature range	-10°C to +75°C
Mfrs. part nos.	single PC16ECO series dual PC2616ECO series switched PC16ECO/B40W2S series

Type	Order code	1+	25+	100+	250+
Single controls					
1K linear	65-1400	0.79	0.75	0.70	0.60
2K2 linear	65-1401	0.70	0.70	0.65	0.53
4K7 linear	65-1402	0.75	0.70	0.65	0.53
10K linear	65-1404	0.75	0.70	0.65	0.53
47K linear	65-1408	0.79	0.75	0.70	0.60
100K linear	65-1410	0.79	0.75	0.70	0.60
470K linear	65-1414	0.79	0.75	0.70	0.60
1M linear	65-1416	0.79	0.75	0.70	0.60
1K log	65-1420	0.95	0.85	0.80	0.75
2K2 log	65-1421	0.89	0.75	0.70	0.65
4K7 log	65-1422	0.89	0.75	0.70	0.65
10K log	65-1424	0.89	0.75	0.70	0.65
47K log	65-1428	0.89	0.75	0.70	0.65
100K log	65-1430	0.75	0.70	0.65	0.53
Dual controls					
1K linear	65-1440	1.65	1.40	1.35	1.30
10K linear	65-1442	1.55	1.30	1.15	1.10
22K linear	65-1444	1.55	1.31	1.17	1.12
47K linear	65-1446	1.55	1.31	1.17	1.12
100K linear	65-1448	1.57	1.32	1.19	1.12
10K log	65-1460	1.69	1.39	1.29	1.23
47K log	65-1464	1.69	1.39	1.29	1.23
100K log	65-1466	1.65	1.35	1.25	1.20
Switched controls					
1K linear	65-1480	1.70	1.45	1.25	1.10
4K7 linear	65-1482	1.71	1.45	1.26	1.11
10K linear	65-1484	1.65	1.40	1.20	1.05
22K linear	65-1486	1.70	1.45	1.25	1.10
100K linear	65-1490	1.71	1.45	1.26	1.11
220K linear	65-1492	1.70	1.45	1.25	1.10
470K linear	65-1494	1.70	1.45	1.25	1.10
4K7 log	65-1510	1.70	1.45	1.25	1.10
10K log	65-1512	1.70	1.45	1.25	1.10
47K log	65-1516	1.70	1.45	1.25	1.10



12mm Square conductive plastic potentiometers

Low cost PCB or panel mounted potentiometers with 1/4in (6.35mm) plastic shafts.

- Offers excellent performance at reasonable cost
- Spectrol 248-7 series



Technical specification	
Tolerance	±20%
Power rating	0.5W 70°C (linear) 0.25W 70°C (log)
Mechanical/electrical rotation	295°/265°
Dielectric strength	750V AC
Temperature coefficient	±1000ppm/°C
Temperature range	-55°C to +125°C

Value (Ω)	Law	Order code	1+	25+	50+	100+
500R	Linear	68-1270	4.25	3.90	3.50	3.10
2K5	Linear	68-1274	4.25	3.90	3.50	3.10
5K	Linear	68-1276	4.25	3.90	3.50	3.10
10K	Linear	68-1278	4.25	3.90	3.50	3.10
25K	Linear	68-1280	4.25	3.90	3.50	3.10
50K	Linear	68-1282	4.25	3.90	3.50	3.10
100K	Linear	68-1284	4.25	3.90	3.50	3.10
50K	Log	68-1294	7.35	6.90	6.40	5.50

ALPS

Professional audio potentiometer

Premium quality rotary potentiometer from Alps, the preferred choice of high end audio manufacturers world-wide.

- Width 27mm
- 20% tolerance
- 5mm x 10mm pitch
- M8 bush with 25mm long 6mm diameter plain round shaft
- Alps RK27 series



Technical specification	
Power rating	0.05W
Voltage rating	30V AC
Resistance tolerance	±20%
Rotational angle	300° ±3%
Rotational life	15,000 cycles
Insertion loss	0.1dB maximum
Gang error	-60dB to 0dB within 3dB

Type	Order code	1+	10+	25+
50K log dual	66-0225	8.50	7.30	6.55

ALPS

Motorised 20k dual-gang rotary potentiometer

A high quality 20kΩ rotary potentiometer that can be adjusted manually or remotely controlled using the small built-in DC motor. Its dual-gang, log law configuration makes it ideal for use as a volume control in Hi-Fi amplifiers and CD/DVD players and other professional audio applications.

- Suitable for PCB mounting
- Metal shaft
- Tolerance 20%
- Rotation 300°
- 4.5V DC motor supply
- Rated power 50mW
- Maximum voltage 30V AC
- Overall width 36.2mm
- M8 bush with 20mm long, ø6mm plain round shaft
- Alps RK271 series

For suitable knobs please see the Fasteners & fixings section.



Technical specification	
Power rating	50mW
Operating current max.	At rotation 100mA At end slip 150mA
Voltage rating	30V AC
Tolerance	20%
Gang error	-60 dB to 0dB within 3dB
Insulation resistance	100MΩ min. @ 250V DC
Voltage proof	1mins. @ 300V DC
Rotational angle	300° ±5°
Rotation torque	15 to 45mN·m
Rotation speed	25°/s
Motor voltage	4V to 6V DC
Operating life	15,000 cycles
Operating temperature range	-10°C to +60°C

Type	Order code	1+	10+	25+
20K Motorised pot.	66-0226	17.95	14.95	13.95



1W Single turn precision potentiometer

A single turn precision potentiometer with bush mounting. Conductive plastic element provides excellent linearity. End slotted stainless steel shaft.

- Low profile design protrudes just 9.5mm behind the panel
- Supplied complete with fixing hardware
- Available in continuous rotation (**Spectrol 357-0-0** series) or with rotational stops (**Spectrol 357-2-0** series)



Technical specification	
Tolerance	±20%
Power rating	1W 70°C
Mechanical electrical rotation	340°/340° (or 360° continuous)
Linearity	±2% independent
Temperature coefficient	±600ppm/°K max.
Rotational life (mechanical)	> 10 million operations
Temperature range	-55°C to +125°C

Type	Order code	1+	10+	25+	50+
2K	68-1302	9.75	8.90	8.20	7.15
5K	68-1304	7.7557			
10K	68-1306	11.95	11.50	10.50	9.99
20K	68-1308	9.75	8.90	8.20	7.15
50K	68-1310	9.75	8.90	8.20	7.15

Rotational (357-2-0 series)

Type	Order code	1+	10+	25+	50+
1K	68-1312	10.20	9.60	8.80	7.65

Rotational (357-0-0 series)

Type	Order code	1+	10+	25+	50+
2K	68-1314	10.20	9.60	8.80	7.65
10K	68-1318	10.20	9.60	8.80	7.65
20K	68-1320	10.20	9.60	8.80	7.65
50K	68-1322	10.20	9.60	8.80	7.65



1W Single turn precision potentiometers

A range of single turn, precision potentiometers that feature bush mounting. These components use a conductive plastic element which gives excellent linearity. Can be used as both a precision potentiometer or as a position sensor.

- Power rating 1W
- Tolerance ±10%
- Body ø22mm
- Shaft ø6.35mm with 9.5mm bushing
- Slotted metal shaft
- TT Electronics 6187 series



Technical specification		
Tolerance	±10%	
Linearity	±1%	
Input voltage max.	400V DC	
Power rating	1W	
Dielectric strength	750V AC rms	
Insulation resistance min.	1000MΩ	
Output smoothness	0.1%	
Rotational life	5,000,000 shaft revolutions	
Operating temperature range	-65°C to +125°C	

Order code	Value (Ω)	Mfrs. pt. no.
68-1184	1K	6187R1K1.0
68-1185	2K	6187R2K1.0
68-1186	5K	6187R5K1.0
68-1187	10K	6187R10K1.0
68-1188	50K	6187R50K1.0

Value (Ω)	Order code	1+	10+	25+	50+
1K	68-1184	4.90	4.50	4.20	3.90
2K	68-1185	4.90	4.50	4.20	3.90
5K	68-1186	4.90	4.50	4.20	3.90
10K	68-1187	4.90	4.50	4.20	3.90
50K	68-1188	4.90	4.50	4.20	3.90



3W Multiturn potentiometers

Precision helical 3 watt 10 turn potentiometers.

- 5% tolerance
- 3W rated
- Spectrol 534 series

Technical specification	
Power rating	3W (2W 70°C)
Tolerance	±5%
Effective rotation	3600° (+10° -0°)
Mechanical rotation	3600° (+10° -0°)
Temperature coefficient	±20ppm/°C
Linearity	±25%
End resistance	1Ω
Dielectric strength	1000V AC
Dimensions	body 19.1() x 22.2(dia.) spindle 6.35mm (mounting bush 3/8 x 32 UNEF)

Type	Order code	1+	10+	25+
100R 0.06%	65-1020	7.50	6.50	5.35
200R 0.037%	65-1025	7.50	6.50	5.35
500R 0.03%	65-1030	7.50	6.50	5.35
1K 0.025%	65-1035	7.50	6.50	5.35
2K 0.021%	65-1040	7.50	6.50	5.35
5K 0.016%	65-1045	7.50	6.50	5.35
10K 0.017%	65-1050	7.50	6.50	5.35
20K 0.015%	65-1055	7.50	6.50	5.35
50K 0.009%	65-1060	7.50	6.50	5.35
100K 0.007%	65-1065	11.50	10.35	9.35



15-turn Counting dials

Satin chrome analogue 15-turn counting dials with locking lever for use with 0.375in dia. 32 TPI INF-2A bush potentiometers.

- Bush depth 6.9mm (max.)
- Supplied with allen key
- Available in two diameters



Diameter (mm)	Mfr. type	Order code	1+	10+	20+	50+
2.22	16-1-11	65-1080	8.90	7.80	7.50	7.25
46.0	21-2-11	65-1082	16.72	15.72	14.72	13.72



10-turn Digital counting dial

A 10-turn digital readout counting dial with protective window with satin silver finish.

- Supplied with key for tightening the locking set screws
- Spectrol type 15-1-31



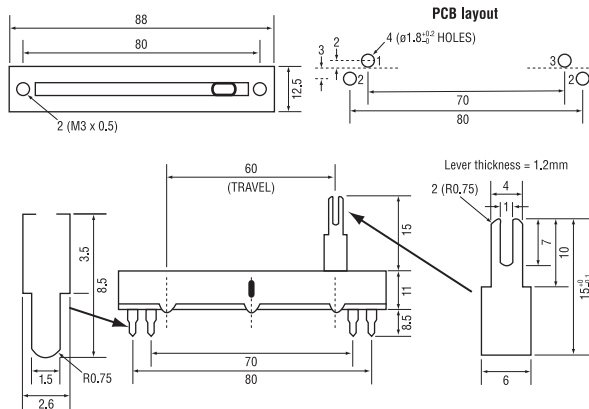
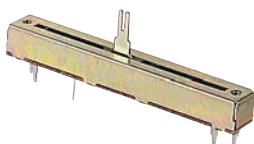
Type	Order code	1+	10+	25+	50+
10-turn Digital dial	68-1330	17.95	16.95	15.95	14.95

TruOhm

Slide potentiometers

Good quality 60mm travel single track slide potentiometers intended for PCB mounting (or may be hard wired if required). Available in a wide range of popular values in both Log and Linear laws.

- Suitable for use in mixers, audio consoles, lighting equipment, etc.



For suitable control knobs see **Fasteners & fixings** section.

Technical specification
 Dimensions 80 x 12 x 16mm
 Slider length 15mm
 Travel 60mm
 End resistance 1% nominal
 Power rating 0.5W Linear law
 0.25W Log law
 Maximum voltage 500V DC Linear law
 250V DC Log law
 Slide force 50-350µm/cm
 Temperature range -25°C to +70°C

Type	Order code	1+	100+	500+	1000+
10K lin	66-0105	0.74	0.6148	0.53	0.4982
100K lin	66-0120	0.74	0.6148	0.53	0.4982
500K lin	66-0130	0.93	0.7738	0.6625	0.6222
10K log	66-0140	0.93	0.7738	0.6625	0.6222

Preset potentiometers



4mm SMD Trimmers - 11 turn

Surface mounting 4mm square 11 turn cermet trimmers with sealed construction to withstand standard board washing.

- Fully compatible with pick and place
- Flush adjustment screw
- Standard footprint
- Bourns 3224J series (side adjust)
- Bourns 3224W series (top adjust)
- Full reel quantity 500 (3224J)
- Full reel quantity 250 (3224W)



Technical specification
 Tolerance ±10%
 Power rating 0.25W 85°C
 Operating voltage max. 200V
 Temperature coefficient 100ppm/°C
 Temperature range -65°C to +150°C

Type	Order code	1+	25+	100+	500+
1K	68-1700	1.86	1.58	1.48	1.37
2K	68-1705	1.86	1.58	1.48	1.37
5K	68-1710	0.9393			
10K	68-1715	1.86	1.58	1.48	1.37
20K	68-1720	1.86	1.58	1.48	1.37
50K	68-1725	1.86	1.58	1.48	1.37
100K	68-1730	1.86	1.58	1.48	1.37
200R	68-1800	1.86	1.58	1.48	1.37
1K	68-1805	1.86	1.58	1.48	1.37
5K	68-1810	1.86	1.58	1.48	1.37
10K	68-1815	1.86	1.58	1.48	1.37
20K	68-1820	1.86	1.58	1.48	1.37
50K	68-1825	1.86	1.58	1.48	1.37
100K	68-1830	1.86	1.58	1.48	1.37

Iskra

Finger adjust preset potentiometers

Fully enclosed single turn horizontal mounting preset potentiometers which feature a hexagonal adjustment slot. A separate hexagonal spindle is available which allows easy finger adjustment of the control.

- Pin positions compatible with **Piher PT10** and **Citec CT10** series
- **Iskra PNZ10ZA** series



Technical specification
 Dimensions 9.8 x 11 x 6mm
 Pitch 5 x 10mm
 Tolerance ±20%
 End resistance 2%
 Power rating 0.15W 40 C
 Maximum voltage 200V DC
 Electrical rotation 240 ±20°
 Operating torque 4 to 20 mNm

Value (Ω)	Order code	1+	100+	500+
470R	67-0460	0.11	0.072	0.065
1M	67-0462	0.11	0.072	0.065
4K7	67-0464	0.11	0.072	0.065
10K	67-0466	0.11	0.072	0.065
47K	67-0470	0.11	0.072	0.065
100K	67-0472	0.11	0.072	0.065
1M	67-0478	0.11	0.072	0.065
Spindle	67-0480	0.05	0.038	0.033

Iskra

Enclosed preset potentiometers

Fully enclosed miniature single turn preset potentiometers.

- Suitable for use in unfavourable environments
- Regular outline facilitates use in automatic insertion machines
- Adjustment may be made from both sides
- Pin positions compatible with **Piher PT10** and **CITEC CT10** series
- **Iskra PNZ10Z** and **PNZ11Z** series



Technical specification
 Dimensions Horizontal 9.8 x 11 x 6mm
 Vertical 9.8 x 11 x 5mm
 Pitch Horizontal 5 x 10mm
 Vertical 5 x 2.5mm
 Tolerance 20%
 End resistance 2%
 Power rating 0.15W at 40°C
 Maximum voltage 200V DC
 Temperature coefficient 1000ppm°C
 Temperature range -5°C to +70°C

Value (Ω)	Order code	1+	100+	500+
Top adjust (Horizontal)				
100R	67-0200	0.10	0.068	0.057
220R	67-0205	0.10	0.068	0.057
470R	67-0210	0.10	0.068	0.057
1K	67-0215	0.10	0.068	0.057
2K	67-0220	0.10	0.068	0.057
4K7	67-0225	0.10	0.068	0.057
10K	67-0230	0.10	0.068	0.057
22K	67-0235	0.10	0.068	0.057
47K	67-0240	0.10	0.068	0.057
100K	67-0245	0.10	0.068	0.057
220K	67-0250	0.10	0.068	0.057
470K	67-0255	0.10	0.068	0.057
1M	67-0260	0.10	0.068	0.057
Side adjust (Vertical)				
100R	67-0270	0.10	0.068	0.057
220R	67-0275	0.10	0.068	0.057
470R	67-0280	0.10	0.068	0.057
1K	67-0285	0.10	0.068	0.057
2K2	67-0290	0.10	0.068	0.057
4K7	67-0295	0.10	0.068	0.057
10K	67-0300	0.10	0.068	0.057
22K	67-0305	0.10	0.068	0.057
47K	67-0310	0.10	0.068	0.057
100K	67-0315	0.10	0.068	0.057
220K	67-0320	0.10	0.068	0.057
470K	67-0325	0.10	0.068	0.057
1M	67-0330	0.10	0.068	0.057



New products

... added daily, check our website

www.rapidonline.com

TruOhm

Carbon preset potentiometers

Miniature single turn carbon track preset potentiometers.

- Horizontal mounting
- Linear law
- 30% tolerance
- 0.03W rated



Technical specification	
Dimensions	8.2 x 11.2 x 2.6mm
Pitch	5 x 10mm
Tolerance	±30%
End resistance	>20Ω
Power rating	0.03W
Maximum operating voltage	100V AC, 20V DC
Electrical rotation	250 ±5°
Rotational torque	30-60 gf/cm

Value (Ω)	Order code	1+	100+	500+	1000+
100R	67-0400	0.08	0.0636	0.0456	0.0403
220R	67-0402	0.08	0.0636	0.0456	0.0403
470R	67-0404	0.08	0.0636	0.0456	0.0403
1K	67-0406	0.08	0.0636	0.0456	0.0403
2K2	67-0408	0.08	0.0636	0.0456	0.0403
4K7	67-0410	0.08	0.0636	0.0456	0.0403
10K	67-0412	0.08	0.0636	0.0456	0.0403
22K	67-0414	0.08	0.0636	0.0456	0.0403
47K	67-0416	0.08	0.0636	0.0456	0.0403
100K	67-0418	0.08	0.0636	0.0456	0.0403
200K	67-0420	0.08	0.0636	0.0456	0.0403
500K	67-0422	0.08	0.0636	0.0456	0.0403
1M	67-0424	0.08	0.0636	0.0456	0.0403

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- Inductors
- Resettable fuses
- Resistor networks

TruOhm

Preset potentiometer kit

A pack containing a total of 110 miniature horizontal preset potentiometers.

- Each value individually packed
- A total of 13 different values



See www.rapidonline.com for suitable storage cabinets.

Technical specification				
5 x 100R	10 x 1K	15 x 10K	15 x 100K	5 x 500K
5 x 200R	10 x 2K	5 x 20K	5 x 200K	10 x 1M
5 x 500R	10 x 5K	10 x 50K		

Type	Order code	1+	5+
Preset potentiometer kit	13-0225	7.50	6.30



6mm Cermet potentiometers

Open frame single turn cermet potentiometers available in top or side adjust orientations.

- Trimmers are fitted with dust/splash resistant covers
- Also feature PCB stand-offs
- Legs are preformed to retain the trimmer in PCB prior to soldering
- **Bourns 3306P and 3306W series**



Technical specification	
Dimensions	6.8 x 8.1mm
Pitch	2.5mm
Resistance tolerance	±25%
Power rating	0.2W @ 70°C
Voltage rating	100V
End resistance	2% (2K 30Ω)
Adjustment angle	215°
Operating torque	3.15Ncm max.
Operating temperature	-25°C to +100°C

Type	Order code	1+	25+	100+	500+
Top adjust 3306P					
100R	67-0600	0.31	0.28	0.26	0.22
500R	67-0604	0.31	0.28	0.26	0.22
1K	67-0606	0.31	0.28	0.26	0.22
2K	67-0608	0.31	0.28	0.26	0.22
5K	67-0610	0.31	0.28	0.26	0.22
10K	67-0612	0.31	0.28	0.26	0.22
20K	67-0614	0.31	0.28	0.26	0.22
50K	67-0616	0.31	0.28	0.26	0.22
100K	67-0618	0.31	0.28	0.26	0.22
500K	67-0622	0.31	0.28	0.26	0.22
1M	67-0624	0.31	0.28	0.26	0.22

Type	Order code	1+	25+	100+	500+
Side adjust 3306W					
100R	67-0630	0.34	0.30	0.26	0.22
500R	67-0634	0.34	0.30	0.26	0.22
1K	67-0636	0.1312			
2K	67-0638	0.34	0.30	0.26	0.22
5K	67-0640	0.34	0.30	0.26	0.22
10K	67-0642	0.34	0.30	0.26	0.22
20K	67-0644	0.34	0.30	0.26	0.22
50K	67-0646	0.34	0.30	0.26	0.22
100K	67-0648	0.34	0.30	0.26	0.22
500K	67-0654	0.34	0.30	0.26	0.22
1M	67-0656	0.34	0.30	0.26	0.22



3mm SMD Trimmers - 11-turn

Surface mounting 3mm square 11-turn cermet trimmers with sealed construction to withstand standard board washing.

- Fully compatible with pick and place
- Flush adjustment screw
- Standard footprint
- Top adjust
- **Bourns 3223W series**
- Full reel quantity 500



Technical specification	
Tolerance	±20%
Power rating	0.125W 70°C
Operating voltage max.	300V
Temperature coefficient	100ppm/°C
Temperature range	-65°C to +150°C

Type	Order code	1+	50+	100+	250+
200R	68-1900	1.85	1.60	1.50	1.39
1K	68-1905	1.85	1.60	1.50	1.39
5K	68-1910	1.85	1.60	1.50	1.39
10K	68-1915	1.85	1.60	1.50	1.39
20K	68-1920	1.85	1.60	1.50	1.39
50K	68-1925	1.85	1.60	1.50	1.39
100K	68-1930	1.85	1.60	1.50	1.39



4mm SMD Trimmers - 11 turn

Surface mounting 4mm square 11 turn cermet trimmers with sealed construction to withstand standard board washing.

- Fully compatible with pick and place
- Flush adjustment screw
- Standard footprint
- **Bourns 3224J series (side adjust)**
- **Bourns 3224W series (top adjust)**
- Full reel quantity 500 (3224J)
- Full reel quantity 250 (3224W)



Technical specification	
Tolerance	±10%
Power rating	0.25W 85°C
Operating voltage max.	200V
Temperature coefficient	100ppm/°C
Temperature range	-65°C to +150°C

Type	Order code	1+	25+	100+	500+
1K	68-1700	1.86	1.58	1.48	1.37
2K	68-1705	1.86	1.58	1.48	1.37
5K	68-1710	0.9393			
10K	68-1715	1.86	1.58	1.48	1.37
20K	68-1720	1.86	1.58	1.48	1.37
50K	68-1725	1.86	1.58	1.48	1.37
100K	68-1730	1.86	1.58	1.48	1.37
200R	68-1800	1.86	1.58	1.48	1.37
1K	68-1805	1.86	1.58	1.48	1.37
5K	68-1810	1.86	1.58	1.48	1.37
10K	68-1815	1.86	1.58	1.48	1.37
20K	68-1820	1.86	1.58	1.48	1.37
50K	68-1825	1.86	1.58	1.48	1.37
100K	68-1830	1.86	1.58	1.48	1.37

TruOhm

6mm Cermet high temp potentiometers

A range of glazed metal slide trimmer potentiometers.

- High temperature working
- Low slide noise



Technical specification	
Power rating	0.3W
Voltage rating	100V AC
Tolerance	±20%
Temperature coefficient	±150ppm/°C
Temperature characteristics	Within ±3% after unloaded exposure to 125°C for 5mins.
Dimensions (mm)	6.8 x 11.5 x 7.7
Pitch (mm)	5 x 5
Adjustment angle	240°

Value (Ω)	Order code	1+
100	67-0348	0.0474
200	67-0349	0.04
500	67-0350	0.04
2K	67-0352	0.04
5K	67-0353	0.04
20K	67-0355	0.04
50K	67-0356	0.04
100K	67-0357	0.04
200K	67-0358	0.04
500K	67-0359	0.04
1M	67-0360	0.04

TruOhm

9mm Cermet skeleton potentiometers

A range of glazed metal slide trimmer potentiometers.

- Low slide noise



Technical specification	
Power rating	0.3W
Voltage rating	100V AC
Tolerance	±20%
Dimensions (mm)	8.8 x 12.8 x 10.9
Pitch (mm)	5 x 10
Adjustment angle	260°

Value (Ω)	Order code	1+
1K	67-0340	0.05
2K	67-0341	0.05
5K	67-0342	0.05
50K	67-0345	0.05
100K	67-0346	0.05
1M	67-0347	0.05



9mm Cermet skeleton trimmer potentiometer

Horizontal 9mm cermet skeleton trimmers. Fitted with cross slot rotor, board retention and pcb stand-offs.

- Fitted with dust/splash resistant covers
- 10 x 5mm pitch spacing
- Allows top of bottom adjustment
- Ideal for commercial and professional applications
- **Bourns 3309P** series



Technical specification	
Power rating	0.5W
Voltage rating	250V
Tolerance	25%
Dimensions	9mm x 11mm x 5.8mm
Pitch spacing	5mm x 10mm
Temperature coefficient	±250ppm/°C
Adjustment angle	235°

Type	Order code	1+	25+	100+	500+
500R	67-0880	0.38	0.34	0.30	0.25
1K	67-0882	0.38	0.34	0.30	0.25
2K	67-0884	0.38	0.34	0.30	0.26
5K	67-0886	0.38	0.34	0.30	0.25
10K	67-0888	0.38	0.34	0.30	0.25
20K	67-0890	0.38	0.34	0.30	0.26
50K	67-0892	0.38	0.34	0.30	0.25
100K	67-0894	0.38	0.34	0.30	0.25
1M	67-0896	0.38	0.34	0.30	0.25

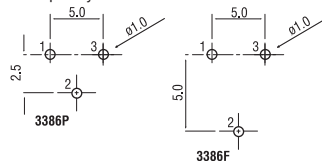
No minimum order value
UK mainland only

TruOhm

3/8in Single turn cermet potentiometers

A range of fully enclosed single turn cermet potentiometers, sealed to withstand industrial cleaning solvents and harsh environments with moulded PCB stand offs.

- Used for trimming the value of a resistor, and are commonly used for calibrating instruments
- Unique multifinger wiper design ensures excellent noise and stability characteristics
- Available with two different pin layouts



Technical specification	
Operating voltage	300V max.
Power rating	0.5W
Total resistance	10Ω to 2MΩ
Tolerance	±10%
Temperature range	-10°C to +70°C

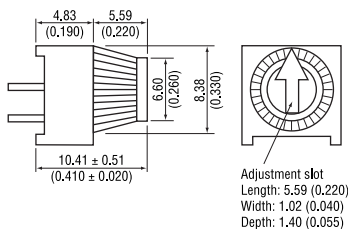
Type	Order code	1+	25+	100+	500+
3386P series					
10R	68-0011	0.45	0.3498	0.2915	0.2512
100R	68-0015	0.45	0.3498	0.2915	0.2512
200R	68-0016	0.45	0.3498	0.2915	0.2512
500R	68-0017	0.45	0.3498	0.2915	0.2512
1K	68-0018	0.45	0.3498	0.2915	0.2512
2K	68-0019	0.45	0.3498	0.2915	0.2512
5K	68-0020	0.45	0.3498	0.2915	0.2512
10K	68-0021	0.35	0.2756	0.2332	0.2014
20K	68-0022	0.45	0.3498	0.2915	0.2512
50K	68-0023	0.45	0.3498	0.2915	0.2512
100K	68-0024	0.45	0.3498	0.2915	0.2512
200K	68-0025	0.45	0.3498	0.2915	0.2512
500K	68-0026	0.45	0.3498	0.2915	0.2512
1M	68-0027	0.45	0.3498	0.2915	0.2512
2M	68-0012	0.45	0.3498	0.2915	0.2512
3386F series					
10R	68-0013	0.45	0.3498	0.2915	0.2512
100R	68-0028	0.45	0.3498	0.2915	0.2512
200R	68-0029	0.45	0.3498	0.2915	0.2512
500R	68-0030	0.45	0.3498	0.2915	0.2512
1K	68-0031	0.45	0.3498	0.2915	0.2512
2K	68-0032	0.45	0.3498	0.2915	0.2512
5K	68-0033	0.45	0.3498	0.2915	0.2512
10K	68-0034	0.45	0.3498	0.2915	0.2512
20K	68-0035	0.45	0.3498	0.2915	0.2512
50K	68-0036	0.45	0.3498	0.2915	0.2512
100K	68-0037	0.0973			
200K	68-0038	0.45	0.3498	0.2915	0.2512
500K	68-0039	0.45	0.3498	0.2915	0.2512
1M	68-0040	0.0973			
2M	68-0014	0.45	0.3498	0.2915	0.2512

TruOhm

3/8in Single turn finger adjustable potentiometer

A range of fully enclosed single turn potentiometers that feature a finger adjustment knob with adjustment slot. Suitable for a wide range of applications.

- Single turn adjustment
- 10% tolerance
- 0.1 x 0.2in pitch spacing
- **UL 94V-0** flammability



Technical specification	
Withstand voltage	600V AC
Insulation resistance	≥1GΩ
Effective travel	300°
Power rating	0.5W
Temperature range	-55°C to +125°C
Temperature coefficient	±100ppm/°C
Starting torque	≤35mN m

Value (Ω)	Order code	1+	25+	100+	500+
3386FT series					
100R	68-0236	0.57	0.477	0.424	0.3837
200R	68-0237	0.1014			
500R	68-0238	0.57	0.477	0.424	0.3837
1K	68-0239	0.57	0.477	0.424	0.3837
2K	68-0240	0.57	0.477	0.424	0.3837
5K	68-0241	0.57	0.477	0.424	0.3837
10K	68-0242	0.46	0.3816	0.3392	0.3074
20K	68-0243	0.57	0.477	0.424	0.3837
50K	68-0244	0.57	0.477	0.424	0.3837
100K	68-0245	0.57	0.477	0.424	0.3837
200K	68-0246	0.57	0.477	0.424	0.3837
500K	68-0247	0.57	0.477	0.424	0.3837
1M	68-0248	0.57	0.477	0.424	0.3837

Page 585

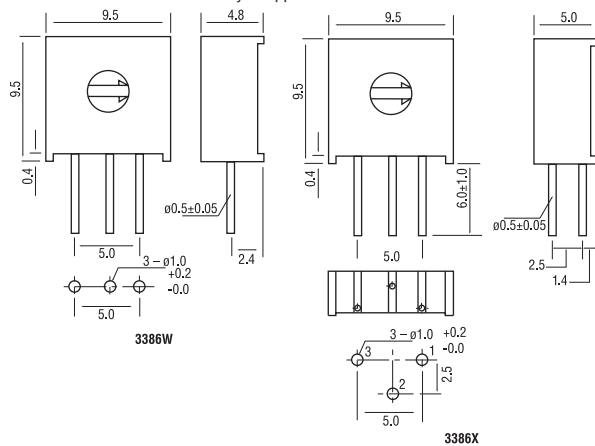
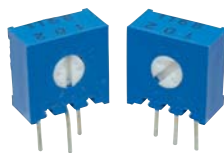
4.85mm Flashing diamond lens LED



3/8in Single turn vertically mounted potentiometer

A series of fully enclosed 9.5mm single turn cermet potentiometers.

- Available in two pin layouts
- Sealed to protect against industrial cleaning solvents and harsh environments
- Moulded PCB stand offs
- High performance with high dependability
- Easily adjusted via large diameter shaft
- Suitable for use in a wide variety of applications



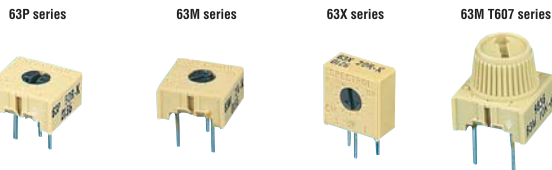
Technical specification
 Operating voltage 300V max.
 Power rating 0.5W
 Total resistance range 100Ω to 1MΩ
 Tolerance ±10%
 Temperature range -10°C to +70°C
 Rotation angle 300° ±10°
 Operating torque 20 - 300gf
 Rotational life 200 cycles

Value	Order code	1+	25+	100+	500+
WR3386W Straight pin					
10R	68-0203	0.45	0.3498	0.2915	0.2512
20R	68-0204	0.45	0.3498	0.2915	0.2512
50R	68-0206	0.45	0.3498	0.2915	0.2512
100R	68-0171	0.45	0.3498	0.2915	0.2512
200R	68-0172	0.45	0.3498	0.2915	0.2512
1K	68-0174	0.45	0.3498	0.2915	0.2512
2K	68-0175	0.45	0.3498	0.2915	0.2512
5K	68-0176	0.45	0.3498	0.2915	0.2512
10K	68-0177	0.45	0.3498	0.2915	0.2512
20K	68-0178	0.45	0.3498	0.2915	0.2512
25K	68-0207	0.45	0.3498	0.2915	0.2512
50K	68-0179	0.45	0.3498	0.2915	0.2512
100K	68-0180	0.35	0.2756	0.2332	0.2014
200K	68-0181	0.45	0.3498	0.2915	0.2512
500K	68-0182	0.45	0.3498	0.2915	0.2512
1M	68-0183	0.45	0.3498	0.2915	0.2512

Value	Order code	1+	25+	100+	500+
WR3386X Offset pin					
10R	68-0197	0.45	0.3498	0.2915	0.2512
20R	68-0198	0.45	0.2915	0.2512	0.2512
50R	68-0199	0.45	0.3498	0.2915	0.2512
100R	68-0184	0.45	0.3498	0.2915	0.2512
200R	68-0185	0.45	0.3498	0.2915	0.2512
500R	68-0186	0.45	0.3498	0.2915	0.2512
1K	68-0187	0.45	0.3498	0.2915	0.2512
2K	68-0188	0.45	0.3498	0.2915	0.2512
5K	68-0189	0.45	0.3498	0.2915	0.2512
10K	68-0190	0.45	0.3498	0.2915	0.2512
20K	68-0191	0.45	0.3498	0.2915	0.2512
25K	68-0201	0.45	0.3498	0.2915	0.2512
50K	68-0192	0.45	0.3498	0.2915	0.2512
100K	68-0193	0.45	0.3498	0.2915	0.2512
500K	68-0195	0.45	0.3498	0.2915	0.2512
1M	68-0196	0.45	0.3498	0.2915	0.2512



3/8in single turn cermet potentiometers



Fully enclosed single turn cermet potentiometers including the popular finger adjustable style.

- Sealed to withstand industrial cleaning solvents with moulded PCB stand offs
- Available in four styles

Technical specification
 Tolerance 10%
 End resistance 2Ω maximum
 Power rating 0.5W @ 70°C
 Dielectric strength 1000VAC
 Temperature coefficient ±100ppm/°C
 Temperature range -55°C to +125°C

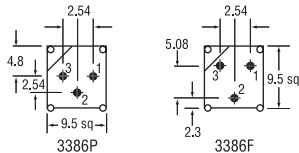
Type	Order code	1+	25+	100+	250+
100Ω	68-0600	0.69	0.59	0.487	0.45
500Ω	68-0604	0.69	0.59	0.487	0.45
1K	68-0606	0.69	0.59	0.487	0.45
2K	68-0608	0.69	0.59	0.487	0.45
5K	68-0610	0.69	0.59	0.487	0.45
10K	68-0612	0.69	0.59	0.487	0.45
20K	68-0614	0.69	0.59	0.487	0.45
50K	68-0616	0.69	0.59	0.487	0.45
100K	68-0618	0.69	0.59	0.487	0.45
200K	68-0620	0.69	0.59	0.487	0.45
500K	68-0622	0.69	0.59	0.487	0.45
1M	68-0624	0.69	0.59	0.487	0.45
100Ω	68-0630	0.55	0.47	0.39	0.36
200Ω	68-0632	0.55	0.47	0.39	0.36
500Ω	68-0634	0.55	0.47	0.39	0.36
1K	68-0636	0.55	0.47	0.39	0.36
5K	68-0640	0.55	0.47	0.39	0.36
10K	68-0642	0.55	0.47	0.39	0.36
50K	68-0646	0.55	0.47	0.39	0.36
100K	68-0648	0.55	0.47	0.39	0.36
200K	68-0650	0.55	0.47	0.39	0.36
500K	68-0652	0.55	0.47	0.39	0.36
1M	68-0654	0.55	0.47	0.39	0.36
100Ω	68-0660	0.35			
200Ω	68-0662	0.69	0.59	0.487	0.45
500Ω	68-0664	0.69	0.59	0.487	0.45
1K	68-0666	0.69	0.59	0.487	0.45
5K	68-0670	0.69	0.59	0.487	0.45
10K	68-0672	0.69	0.59	0.487	0.45
20K	68-0674	0.69	0.59	0.487	0.45
50K	68-0676	0.55	0.47	0.39	0.36
100K	68-0678	0.69	0.59	0.487	0.45
200K	68-0680	0.69	0.59	0.487	0.45
1M	68-0684	0.55	0.47	0.39	0.36
100Ω	68-0686	1.10	0.99	0.92	0.86
500Ω	68-0690	1.10	0.99	0.92	0.86
1K	68-0692	1.10	0.99	0.92	0.86
2K	68-0694	1.10	0.99	0.92	0.86
5K	68-0696	1.10	0.99	0.92	0.86
10K	68-0698	1.10	0.99	0.92	0.86
20K	68-0700	1.10	0.99	0.92	0.86
50K	68-0702	1.10	0.99	0.92	0.86
100K	68-0704	1.10	0.99	0.92	0.86
200K	68-0706	1.10	0.99	0.92	0.86
1M	68-0710	1.10	0.99	0.92	0.86



3/8in single turn cermet potentiometers

A fully enclosed single turn cermet potentiometer, sealed to withstand industrial cleaning solvents with moulded PCB stand offs.

- Unique multifinger wiper design ensures excellent noise and stability characteristics
- Top adjust style
- Bourns 3386P and 3386F series



Technical specification
 Tolerance 10%
 End resistance 1% or 2Ω
 Power rating 0.5W 70°C
 Dielectric strength 900V AC
 Temperature coefficient ±100ppm/°C
 Temperature range -55°C to +125°C

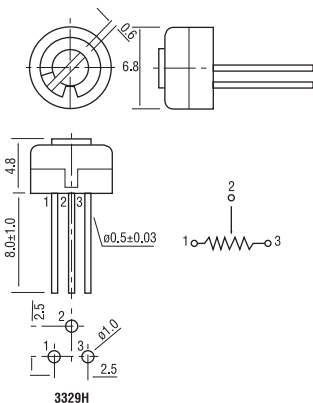
Type	Order code	1+	25+	100+	500+
3386P series					
200Ω	68-0505	0.46	0.39	0.37	0.34
500Ω	68-0510	0.46	0.39	0.37	0.34
1K	68-0515	0.46	0.39	0.37	0.34
2K	68-0520	0.46	0.39	0.37	0.34
5K	68-0525	0.46	0.39	0.37	0.34
10K	68-0530	0.46	0.39	0.37	0.34
20K	68-0535	0.46	0.39	0.37	0.34
50K	68-0540	0.46	0.39	0.37	0.34
100K	68-0545	0.46	0.39	0.37	0.34
500K	68-0550	0.46	0.39	0.37	0.34
1M	68-0555	0.46	0.39	0.37	0.34
200Ω	68-0562	0.46	0.39	0.37	0.34
500Ω	68-0564	0.46	0.39	0.37	0.34
1K	68-0566	0.46	0.39	0.37	0.34
2K	68-0568	0.46	0.39	0.37	0.34
5K	68-0570	0.46	0.39	0.37	0.34
10K	68-0572	0.46	0.39	0.37	0.34
20K	68-0574	0.46	0.39	0.37	0.34
50K	68-0576	0.46	0.39	0.37	0.34
100K	68-0578	0.46	0.39	0.37	0.34
200K	68-0580	0.46	0.39	0.37	0.34
500K	68-0582	0.46	0.39	0.37	0.34
1M	68-0584	0.46	0.39	0.37	0.34



Miniature 1/4in Single turn cermet potentiometers

A series of fully enclosed miniature 6.8mm single turn cermet potentiometers.

- Sealed to protect against industrial cleaning solvents and harsh environments
- High performance with high dependability
- Easily adjusted via large diameter shaft
- 2.5mm pitch spacing
- Suitable for use in a wide variety of applications



Technical specification
 Operating voltage 300V max.
 Power rating 0.5W
 Total resistance range 10Ω to 500kΩ
 Tolerance ±10%
 Temperature range -10°C to +70°C
 Rotation angle 270° ±10°
 Operating torque 30 - 350gf
 Rotational life 200 cycles

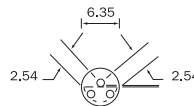
Type	Order code	1+	25+	100+	500+
3329H series					
10R	68-0280	0.39	0.318	0.2512	0.2247
20R	68-0281	0.39	0.318	0.2512	0.2247
50R	68-0282	0.39	0.318	0.2512	0.2247
100R	68-0283	0.39	0.318	0.2512	0.2247
200R	68-0284	0.39	0.318	0.2512	0.2247
500R	68-0285	0.39	0.318	0.2512	0.2247
1K	68-0286	0.39	0.318	0.2512	0.2247
2K	68-0287	0.39	0.318	0.2512	0.2247
5K	68-0288	0.39	0.318	0.2512	0.2247
10K	68-0289	0.39	0.318	0.2512	0.2247
20K	68-0290	0.39	0.318	0.2512	0.2247
50K	68-0291	0.39	0.318	0.2512	0.2247
100K	68-0292	0.39	0.318	0.2512	0.2247
200K	68-0293	0.39	0.318	0.2512	0.2247
500K	68-0294	0.39	0.318	0.2512	0.2247



Miniature 1/4in single turn cermet potentiometers

Miniature 1/4in single turn cermet potentiometers.

- Sealed to withstand cleaning solvents
- 2.5mm pitch spacing
- Horizontally mounted
- Bourns 3329H series



Technical specification
 Dimensions 6.35 x 4.57mm
 Pitch 2.54mm
 Tolerance 10%
 Power rating 0.5W
 Voltage rating 300V
 Dielectric strength 600V AC
 Rotation angle 240°C
 Operating temperature -55°C to +150°C

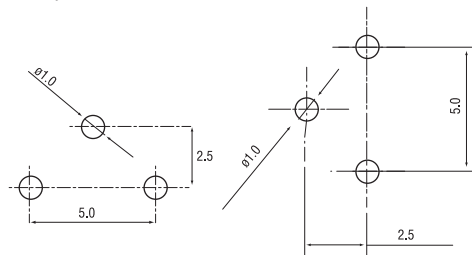
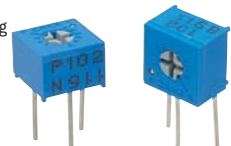
Type	Order code	1+	50+	100+	500+
3329H series					
10Ω	68-0822	0.73	0.65	0.59	0.54
20Ω	68-0824	0.73	0.65	0.59	0.54
50Ω	68-0826	0.73	0.65	0.59	0.54
100Ω	68-0828	0.73	0.65	0.59	0.54
500Ω	68-0832	0.73	0.65	0.59	0.54
1k	68-0834	0.73	0.65	0.59	0.54
2k	68-0836	0.73	0.65	0.59	0.54
5k	68-0838	0.73	0.65	0.59	0.54
10k	68-0840	0.73	0.65	0.59	0.54
20K	68-0842	0.73	0.65	0.59	0.54
50k	68-0844	0.73	0.65	0.59	0.54
100k	68-0846	0.73	0.65	0.59	0.54
500K	68-0848	0.73	0.65	0.59	0.54



1/4in Single turn cermet potentiometers

A range of miniature single turn cermet potentiometers, sealed to withstand industrial cleaning solvents and harsh environments with moulded PCB stand offs.

- Available in both horizontal and vertical options
- Used for trimming the value of a resistor, and are commonly used for calibrating instruments
- Unique multifinger wiper design ensures excellent noise and stability characteristics



Technical specification
 Operating voltage 300V max.
 Power rating 0.5W
 Total resistance 100Ω to 2MΩ
 Tolerance ±10%
 Temperature range -10°C to +70°C

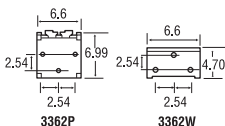
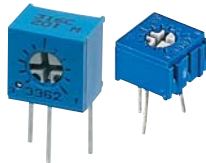
Type	Order code	1+	25+	100+	500+
3362P series - horizontal					
100R	68-0041	0.25	0.1908	0.159	0.1187
200R	68-0042	0.25	0.1908	0.159	0.1187
500R	68-0043	0.25	0.1908	0.159	0.1187
1K	68-0044	0.25	0.1908	0.159	0.1187
2K	68-0045	0.25	0.1908	0.159	0.1187
5K	68-0046	0.25	0.1908	0.159	0.1187
10K	68-0047	0.20	0.1484	0.1272	0.0954
20K	68-0048	0.25	0.1908	0.159	0.1187
50K	68-0049	0.25	0.1908	0.159	0.1187
100K	68-0050	0.25	0.1908	0.159	0.1187
200K	68-0051	0.25	0.1908	0.159	0.1187
500K	68-0052	0.25	0.1908	0.159	0.1187
1M	68-0053	0.25	0.1908	0.159	0.1187
3362W series - vertical					
100R	68-0054	0.25	0.1908	0.159	0.1187
200R	68-0055	0.25	0.1908	0.159	0.1187
500R	68-0056	0.25	0.1908	0.159	0.1187
1K	68-0057	0.25	0.1908	0.159	0.1187
2K	68-0058	0.25	0.1908	0.159	0.1187
5K	68-0059	0.25	0.1908	0.159	0.1187
10K	68-0060	0.25	0.1908	0.159	0.1187
20K	68-0061	0.25	0.1908	0.159	0.1187
50K	68-0062	0.25	0.1908	0.159	0.1187
100K	68-0063	0.25	0.1908	0.159	0.1187
200K	68-0064	0.25	0.1908	0.159	0.1187
500K	68-0065	0.25	0.1908	0.159	0.1187
1M	68-0066	0.25	0.1908	0.159	0.1187



1/4in Single turn cermet potentiometers

Miniature single turn cermet potentiometers sealed to withstand harsh environments and immersion cleaning processes.

- Features a multi-wire wiper to minimise contact resistance variation

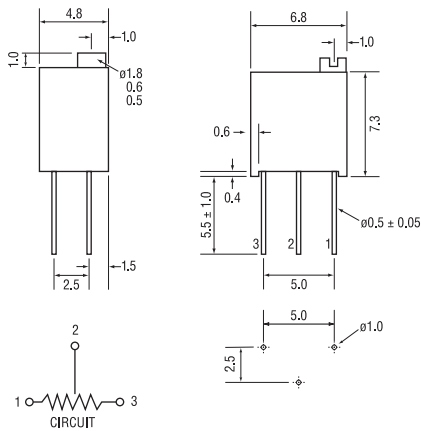


Technical specification
 Dimensions 6.6 x 6.99 x 4.7mm
 Pitch 2.54mm
 Tolerance ±10%
 End resistance 1% (100Ω = 2Ω)
 Power rating 0.5W
 Voltage rating 300V
 Dielectric strength 900V AC
 Temperature coefficient ±100ppm/°C
 Temperature range -55°C to +125°C
 Mechanical rotation 270°

Type	Order code	1+	50+	100+	500+
3362P series - horizontal					
100R	68-0905	0.45	0.40	0.35	0.32
200R	68-0910	0.45	0.40	0.35	0.32
500R	68-0915	0.48	0.45	0.42	0.37
1K	68-0920	0.55	0.50	0.45	0.42
2K	68-0925	0.55	0.50	0.45	0.42
5K	68-0930	0.75	0.70	0.65	0.55
10K	68-0935	0.45	0.40	0.35	0.32
20K	68-0940	0.45	0.40	0.35	0.32
50K	68-0945	0.45	0.40	0.35	0.32
100K	68-0950	0.45	0.40	0.35	0.32
200K	68-0955	0.45	0.40	0.35	0.32
500K	68-0960	0.45	0.40	0.35	0.32
1M	68-0965	0.45	0.40	0.35	0.32
3362W series - vertical					
100R	68-1000	0.45	0.40	0.35	0.32
200R	68-1002	0.45	0.40	0.35	0.32
500R	68-1004	0.45	0.40	0.35	0.32
1K	68-1006	0.45	0.40	0.35	0.32
5K	68-1010	0.45	0.40	0.35	0.32
10K	68-1012	0.45	0.40	0.35	0.32
20K	68-1014	0.45	0.40	0.35	0.32
50K	68-1016	0.45	0.40	0.35	0.32
100K	68-1018	0.45	0.40	0.35	0.32
200K	68-1020	0.45	0.40	0.35	0.32
500K	68-1022	0.45	0.40	0.35	0.32
1M	68-1024	0.45	0.40	0.35	0.32



1/4in Multiturn cermet potentiometers



A range of multiturn cermet potentiometers of robust construction, sealed to withstand industrial cleaning solvents and harsh environments.

- Available in both top adjust and side adjust options
- Housing incorporates PCB stand-offs and slipping clutch end stops

Technical specification
 Operating voltage 300V max.
 Power rating 0.5W
 Total resistance 100Ω to 2MΩ
 Tolerance ±10%
 Temperature range -10°C to +70°C

Type	Order code	1+	25+	100+	500+
3266W series - top adjust					
100R	68-0067	0.76	0.6042	0.5088	0.4558
200R	68-0068	0.95	0.7632	0.636	0.5692
500R	68-0069	0.76	0.6042	0.5088	0.4558
1K	68-0070	0.95	0.7632	0.636	0.5692
2K	68-0071	0.76	0.6042	0.5088	0.4558
5K	68-0072	0.76	0.6042	0.5088	0.4558
10K	68-0073	0.76	0.6042	0.5088	0.4558
20K	68-0074	0.76	0.6042	0.5088	0.4558
50K	68-0075	0.95	0.7632	0.636	0.5692
100K	68-0076	0.76	0.6042	0.5088	0.4558
200K	68-0077	0.95	0.7632	0.636	0.5692
500K	68-0078	0.95	0.7632	0.636	0.5692
1M	68-0079	0.95	0.7632	0.636	0.5692
3266X series - side adjust					
100R	68-0080	0.95	0.7632	0.636	0.5692
200R	68-0081	0.2556			
500R	68-0082	0.95	0.7632	0.636	0.5692
1K	68-0083	0.95	0.7632	0.636	0.5692
2K	68-0084	0.2556			
5K	68-0085	0.95	0.7632	0.636	0.5692
10K	68-0086	0.95	0.7632	0.636	0.5692
20K	68-0087	0.95	0.7632	0.636	0.5692
50K	68-0088	0.2556			
100K	68-0089	0.95	0.7632	0.636	0.5692
200K	68-0090	0.2556			
500K	68-0091	0.95	0.7632	0.636	0.5692
1M	68-0092	0.2556			



Main global distributor of TruOhm resistors and potentiometers

TruOhm is a brand you can trust for quality, price and performance, delivering everything you require from a resistor source: massive product range, high operating temperatures, excellent pulse performance, solderability and RoHS compliancy, as well as industry standard resistance ranges, power ratings and tolerances.

The complete family of over 3,000 resistors and potentiometers is available at the Tru website.

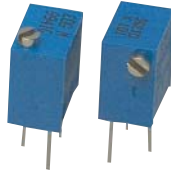
www.rapidonline.com/tru



1/4in Multiturn cermet potentiometers

Top or side adjust multiturn cermet potentiometers of robust construction, fully sealed to withstand industrial cleaning solvents.

- The housing incorporates PCB stand-offs and slipping clutch end stops
- Bourns 3266W and 3266X series



Technical specification	
Dimensions	6.85 x 6.35 x 4.35mm
Pitch	2.54 x 2.54mm
Resistance tolerance	±10%
End resistance	50 max.
Power rating	0.25W @ 70°C
Dielectric strength	600V AC
Temperature coefficient	±100ppm/°C
Electrical rotation	12 turns nom.
Voltage rating	300V

Type	Order code	1+	25+	100+	500+
3266W series - top adjust					
500R	68-0200	1.40	1.29	1.19	1.05
1K	68-0205	1.40	1.29	1.19	1.05
2K	68-0210	1.40	1.29	1.19	1.05
5K	68-0215	1.40	1.29	1.19	1.05
10K	68-0220	1.40	1.29	1.19	1.05
20K	68-0225	1.40	1.29	1.19	1.05
50K	68-0230	1.40	1.29	1.19	1.05
100K	68-0235	1.40	1.29	1.19	1.05
3266X series - side adjust					
500R	68-0250	1.40	1.29	1.19	1.05
1K	68-0252	1.40	1.29	1.19	1.05
2K	68-0254	1.40	1.29	1.19	1.05
5K	68-0256	1.40	1.29	1.19	1.05
10K	68-0258	1.40	1.29	1.19	1.05
20K	68-0260	1.40	1.29	1.19	1.05
50K	68-0262	1.40	1.29	1.19	1.05
100K	68-0264	1.40	1.29	1.19	1.05



1/4in Multiturn cermet potentiometers

Top adjust multiturn cermet potentiometers, fully sealed to withstand industrial cleaning solvents.

- The housing incorporates PCB standoffs
- Slipping clutch end stops
- Murata PV37W series



Technical specification	
Dimensions	6.4 x 6.7 x 4mm
Pitch	2.54 x 2.54 x 2.54mm
Resistance tolerance	±10%
Power rating	0.25W 70°C
Dielectric strength	600V AC
Temperature coefficient	±100ppm/°C
Electrical rotation	12 turns
Voltage rating	300V
Operating temperature	-55°C to +125°C

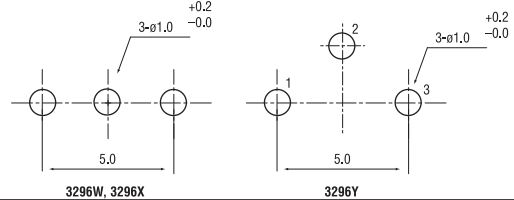
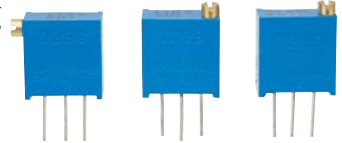
Type	Order code	1+	25+	100+	500+
PV37W series					
100R	68-1100	0.85	0.72	0.67	0.60
200R	68-1102	0.85	0.72	0.67	0.60
500R	68-1104	0.85	0.72	0.67	0.60
1K	68-1106	0.85	0.72	0.67	0.60
2K	68-1108	0.85	0.72	0.67	0.60
5K	68-1110	0.85	0.72	0.67	0.60
10K	68-1112	0.85	0.72	0.67	0.60
20K	68-1114	0.85	0.72	0.67	0.60
50K	68-1116	0.85	0.72	0.67	0.60
100K	68-1118	0.85	0.72	0.67	0.60
200K	68-1120	0.85	0.72	0.67	0.60
500K	68-1122	0.85	0.72	0.67	0.60
1M	68-1124	0.85	0.72	0.67	0.60



3/8in Multiturn cermet potentiometers

A range of high quality 25 turn cermet potentiometers of robust construction, fully sealed to withstand industrial cleaning solvents and harsh environments.

- Available in top or side adjustment options
- Housing incorporates PCB stand-offs and slipping clutch end stops
- Suitable for mounting onto PCBs horizontally or vertically



Technical specification	
Operating voltage	640V for 1 minute
Power rating	0.5W
Total resistance	10Ω to 2MΩ
Tolerance	±10%
Temperature range	-10°C to +70°C

Type	Order code	1+	25+	100+	500+
3296W series - top adjust					
10R	68-1938	0.25	0.1802	0.1452	0.1124
100R	68-1940	0.25	0.1802	0.1452	0.1124
200R	68-1941	0.25	0.1802	0.1452	0.1124
500R	68-1942	0.25	0.1802	0.1452	0.1124
1K	68-1943	0.25	0.1802	0.1452	0.1124
2K	68-1944	0.25	0.1802	0.1452	0.1124
5K	68-1945	0.25	0.1802	0.1452	0.1124
10K	68-1946	0.25	0.1802	0.1452	0.1124
20K	68-1947	0.25	0.1802	0.1452	0.1124
50K	68-1948	0.25	0.1802	0.1452	0.1124
100K	68-1949	0.25	0.1802	0.1452	0.1124
200K	68-1950	0.25	0.1802	0.1452	0.1124
500K	68-1951	0.25	0.1802	0.1452	0.1124
1M	68-1952	0.25	0.1802	0.1452	0.1124
2M	68-1939	0.25	0.1802	0.1452	0.1124
3296X series - side adjust					
10R	68-1936	0.25	0.1802	0.1452	0.1124
100R	68-1953	0.25	0.1802	0.1452	0.1124
200R	68-1954	0.25	0.1802	0.1452	0.1124
500R	68-1955	0.25	0.1802	0.1452	0.1124
1K	68-1956	0.25	0.1802	0.1452	0.1124
2K	68-1957	0.25	0.1802	0.1452	0.1124
5K	68-1958	0.25	0.1802	0.1452	0.1124
10K	68-1959	0.25	0.1802	0.1452	0.1124
20K	68-1960	0.25	0.1802	0.1452	0.1124
50K	68-1961	0.25	0.1802	0.1452	0.1124
100K	68-1962	0.25	0.1802	0.1452	0.1124
200K	68-1963	0.25	0.1802	0.1452	0.1124
500K	68-1964	0.25	0.1802	0.1452	0.1124
1M	68-1965	0.25	0.1802	0.1452	0.1124
2M	68-1937	0.25	0.1802	0.1452	0.1124
3296Y series - top adjust					
10R	68-1934	0.25	0.1802	0.1452	0.1124
100R	68-1966	0.25	0.1802	0.1452	0.1124
200R	68-1967	0.25	0.1802	0.1452	0.1124
500R	68-1968	0.25	0.1802	0.1452	0.1124
1K	68-1969	0.25	0.1802	0.1452	0.1124
2K	68-1970	0.25	0.1802	0.1452	0.1124
5K	68-1971	0.25	0.1802	0.1452	0.1124
10K	68-1972	0.25	0.1802	0.1452	0.1124
20K	68-1973	0.25	0.1802	0.1452	0.1124
50K	68-1974	0.25	0.1802	0.1452	0.1124
100K	68-1975	0.25	0.1802	0.1452	0.1124
200K	68-1976	0.25	0.1802	0.1452	0.1124
500K	68-1977	0.25	0.1802	0.1452	0.1124
1M	68-1978	0.25	0.1802	0.1452	0.1124
2M	68-1935	0.25	0.1802	0.1452	0.1124

Test equipment section

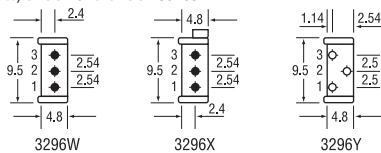




3/8in Multiturn cermet potentiometers

A high quality 3/8in square 25 turn cermet potentiometer of robust construction, fully sealed for board washing.

- Available in top adjust, side adjust or offset pin top adjust styles
- May be mounted directly onto PCBs either vertically or horizontally
- Bourns 3296W, 3296X and 3296Y series



Technical specification	
Tolerance	10%
End resistance	2Ω or 2%
Power rating	0.5W at 70°C
Dielectric strength	1000V AC
Temperature coefficient	100ppm/°C
Temperature range	-55°C to +125°C

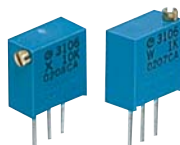
Value	Order code	1+	25+	100+	500+
3296W series - top adjust					
100R	68-0300	0.90	0.75	0.65	0.56
200R	68-0305	0.90	0.75	0.65	0.56
500R	68-0310	0.90	0.75	0.65	0.56
1K	68-0315	0.90	0.75	0.65	0.56
2K	68-0320	0.90	0.75	0.65	0.56
5K	68-0325	0.90	0.75	0.65	0.56
10K	68-0330	0.90	0.75	0.65	0.56
20K	68-0335	0.90	0.75	0.65	0.56
50K	68-0340	0.90	0.75	0.65	0.56
100K	68-0345	0.90	0.75	0.65	0.56
200K	68-0350	0.90	0.75	0.65	0.56
500K	68-0355	0.90	0.75	0.65	0.56
1M	68-0360	0.90	0.75	0.65	0.56
3296X series - side adjust					
100R	68-0380	0.90	0.75	0.65	0.56
200R	68-0382	0.90	0.75	0.65	0.56
500R	68-0384	0.90	0.75	0.65	0.56
1K	68-0386	0.90	0.75	0.65	0.56
2K	68-0388	0.90	0.75	0.65	0.56
5K	68-0390	0.90	0.75	0.65	0.56
10K	68-0392	0.90	0.75	0.65	0.56
20K	68-0394	0.90	0.75	0.65	0.56
50K	68-0396	0.90	0.75	0.65	0.56
100K	68-0398	0.90	0.75	0.65	0.56
500K	68-0402	0.90	0.75	0.65	0.56
1M	68-0404	0.90	0.75	0.65	0.56
100R	68-0409	0.90	0.75	0.65	0.56
200R	68-0412	0.90	0.75	0.65	0.56
500R	68-0414	0.90	0.75	0.65	0.56
1K	68-0416	0.90	0.75	0.65	0.56
2K	68-0418	0.90	0.75	0.65	0.56
5K	68-0420	0.90	0.75	0.65	0.56
10K	68-0422	0.90	0.75	0.65	0.56
20K	68-0424	0.90	0.75	0.65	0.56
50K	68-0426	0.90	0.75	0.65	0.56
100K	68-0428	0.90	0.75	0.65	0.56
200K	68-0430	0.90	0.75	0.65	0.56
500K	68-0432	0.90	0.75	0.65	0.56
1M	68-0434	0.90	0.75	0.65	0.56



3/8in multiturn cermet potentiometers

A range of high quality 3/8in square 25 turn cermet potentiometers, fully sealed to withstand industrial cleaning solvents. The housing incorporates PCB standoffs.

- Slipping clutch end stops
- Top adjust (PV36W series) and side adjust (PV36X series) options are available



Technical specification	
Dimensions	9.5 x 10 x 5.1mm
Pitch	2.5mm
Tolerance	±10%
Power rating	0.5W 70°C
Dielectric strength	1000V AC
Temperature coefficient	±100ppm/°C
Electrical rotation	25 turns
Temperature range	-55°C to +125°C

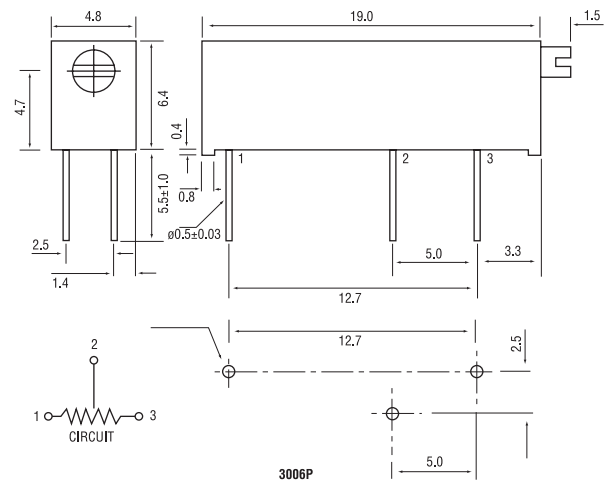
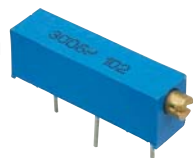
Type	Order code	1+	25+	100+	500+
PV36X series - side adjust					
200R	68-1130	0.55	0.49	0.40	0.36
500R	68-1132	0.55	0.49	0.40	0.36
1K	68-1134	0.55	0.49	0.40	0.36
2K	68-1136	0.55	0.49	0.40	0.36
5K	68-1138	0.55	0.49	0.40	0.36
10K	68-1140	0.55	0.49	0.40	0.36
20K	68-1142	0.55	0.49	0.40	0.36
50K	68-1144	0.55	0.49	0.40	0.36
100K	68-1146	0.55	0.49	0.40	0.36
PV36W series - top adjust					
100R	68-1150	0.55	0.49	0.40	0.36
200R	68-1152	0.55	0.49	0.40	0.36
500R	68-1154	0.55	0.49	0.40	0.36
1K	68-1156	0.55	0.49	0.40	0.36
2K	68-1158	0.55	0.49	0.40	0.36
5K	68-1160	0.55	0.49	0.40	0.36
10K	68-1162	0.55	0.49	0.40	0.36
20K	68-1164	0.55	0.49	0.40	0.36
50K	68-1166	0.55	0.49	0.40	0.36
100K	68-1168	0.55	0.49	0.40	0.36
200K	68-1170	0.55	0.49	0.40	0.36
500K	68-1172	0.55	0.49	0.40	0.36
1M	68-1174	0.55	0.49	0.40	0.36



3/8in Multiturn cermet potentiometers

A series of fully enclosed 19mm multi turn cermet potentiometers.

- Sealed to protect against industrial cleaning solvents and harsh environments
- Moulded PCB stand offs
- High performance with high dependability
- Easily adjusted via large diameter shaft
- Suitable for use in a wide variety of applications



Technical specification	
Operating voltage	640V max.
Power rating	0.75W
Total resistance range	10Ω to 500kΩ
Tolerance	±10%
Temperature range	-10°C to +70°C
Rotation angle	22 turns ±5 turns
Operating torque	30 - 350gf
Rotational life	200 cycles

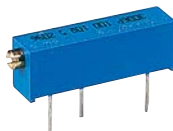
Value	Order code	1+	25+	100+	500+
WR3006P					
10R	68-0265	0.45	0.3604	0.2915	0.2247
20R	68-0266	0.45	0.3604	0.2915	0.2247
50R	68-0267	0.45	0.3604	0.2915	0.2247
100R	68-0268	0.45	0.3604	0.2915	0.2247
200R	68-0269	0.45	0.3604	0.2915	0.2247
500R	68-0270	0.45	0.3604	0.2915	0.2247
1K	68-0271	0.45	0.3604	0.2915	0.2247
2K	68-0272	0.35	0.2862	0.2332	0.1802
5K	68-0273	0.45	0.3604	0.2915	0.2247
10K	68-0274	0.45	0.3604	0.2915	0.2247
20K	68-0275	0.45	0.3604	0.2915	0.2247
50K	68-0276	0.45	0.3604	0.2915	0.2247
100K	68-0277	0.45	0.3604	0.2915	0.2247
200K	68-0278	0.45	0.3604	0.2915	0.2247
500K	68-0279	0.45	0.3604	0.2915	0.2247



3/4in Multiturn cermet potentiometers

A quality multiturn cermet trimmer of robust construction, fully sealed for board washing.

- Excellent setability
- 3/4in type
- A high performance component offered at low cost
- **Bourns 3006P series**



Technical specification	
Dimensions	19 x 6.4 x 4mm
Pitch	7.6 x 5.1 x 2.5mm
Tolerance	10%
End resistance	2Ω max.
Power rating	0.75W at 70°C
Dielectric strength	315V DC or AC rms
Temperature coefficient	100ppm °C
Temperature range	-55°C to +125°C
Electrical rotation	15 turns
Pin diameter	0.6mm

Type	Order code	1+	25+	100+	500+
3006P series					
10R	68-0160	0.66	0.58	0.50	0.45
20R	68-0165	0.66	0.58	0.50	0.45
100R	68-0100	0.66	0.58	0.50	0.45
200R	68-0105	0.66	0.58	0.50	0.45
500R	68-0110	0.67	0.59	0.50	0.45
1K	68-0115	0.66	0.58	0.50	0.45
2K	68-0120	0.66	0.58	0.50	0.45
5K	68-0125	0.66	0.58	0.50	0.45
10K	68-0130	0.66	0.58	0.50	0.45
20K	68-0135	0.66	0.58	0.50	0.45
50K	68-0140	0.66	0.58	0.50	0.45
100K	68-0145	0.66	0.58	0.50	0.45
200K	68-0150	0.66	0.58	0.50	0.45
500K	68-0155	0.66	0.58	0.50	0.45



Trimming tool

A double-ended trimming tool for adjusting most commonly encountered single and multiturn trimmers.

- Plastic body meets **UL 94V-0**
- Stainless steel slotted blades
- Recessed end for use with extended shafts
- Overall length 127mm
- Handy pocket clip
- **Bourns type H90**



Type	Order code	1+	10+	50+
Double-ended trimming tool	68-0825	0.77	0.70	0.66



Trimming tool set

A 10-piece set of single-ended trimming tools.

- Designed for the alignment of trimmers, presets, cores, etc., with hex, square or slotted heads
- Manufactured from tough durable ABS



Type	Order code	1+	10+
10-piece trimming tool set	85-0198	4.49	3.95

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Rapid will store your order **FREE OF CHARGE** and then deliver the required amount along with an individual invoice on your specified dates.

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