

Potentiometers

Order code	Manufacturer code	Description
68-1300	357-0-0-102	1K 357 SERIES CONT.ROT.POTENTIOMETER(RC)
68-1302	357-0-0-202	2K 357 SERIES CONT.ROT.POTENTIOMETER(RC)
68-1304	357-0-0-502	5K 357 SERIES CONT.ROT. POTENTIOMETER RC
68-1306	357-0-0-103	10K 357 SERIES CONT.ROT.POTENTIOMETER RC
68-1308	357-0-0-203	20K 357 SERIES CONT.ROT. POTENTIOMET RC
68-1310	357-0-0-503	50K 357 SERIES CONT.ROT. POTENTIOMETE RC
68-1312	357-2-0-102	1K 357 SERIES ROT.STOPS POTENTIOMETER RC
68-1314	357-2-0-202	2K 357 SERIES ROT.STOPS POTENTIOMETER RC
68-1316	357-2-0-502	5K 357 SERIES ROT.STOPS POTENTIOMETER RC
68-1318	357-2-0-103	10K 357 SERIES ROT.STOPS POTENTIOMETE RC
68-1320	357-2-0-203	20K 357 SERIES ROT.STOPS POTENTIOMETE RC
68-1322	357-2-0-503	50K 357 SERIES ROT.STOPS POT RC

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The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

1W single turn precision potentiometers

Specifications

Electrical

Resistance	
Standard range:	1K Ω to 50k Ω
Tolerance	
Standard:	$\pm 20\%$
Special:	$\pm 10\%$
Linearity (independent):	
Standard:	$\pm 2.0\%$
Special:	$\pm 0.25\%$
Output smoothness:	0.1% max.
Temperature coefficient:	± 600 ppm/ $^{\circ}$ C
Power rating:	1.0W at 70 $^{\circ}$ C, derate to zero at 125 $^{\circ}$ C
Electrical travel:	340 $^{\circ}$ $\pm 3^{\circ}$
End voltage:	0.5% max.
Dielectric withstanding voltage:	1,000V RMS, 50Hz
Insulation resistance:	1,000M Ω , 500VDC

Environmental

Moisture resistant:	Yes
Vibration:	15g, 10 to 2,000Hz
Shock:	50g
Load life:	1000 hours
Temperature range:	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Rotational life	
Mechanical:	10,000,000 shaft revolutions
Electrical:	2,000,000 shaft revolutions

Materials

Housing:	Plastic, glass filled (black)
Bushing:	Brass, nickel plated
Rear lid:	Alumina
Shaft:	Stainless steel
Terminals:	Turret type, solder plated
Bushing mount hardware	
Lockwasher, internal tooth:	Steel, nickel plated
Panel nut:	Brass, nickel plated

Mechanical

Rotation:	360 $^{\circ}$ continuous (optional mechanical stops 340 $^{\circ}$ $\pm 3^{\circ}$)
Bearing type bushing:	Sleeve bearing
Operating torque (max):	3.68 mNm (0.5oz-in)
Shaft tolerance mm max.	
Runout:	0.13
End play:	0.25
Radial play:	0.13
Weight:	17.5gms(0.62oz)
Markings:	Manufacturers name and model number, IEC resistance value coding, tolerance, date code and terminal identification

Model numbers

357- 0 - 0 - XXX

Model number →

FEATURES	
0	Non turn pin, continuous rotation
1	No non turn pin, continuous rotation
2	Non turn pin with rotation stops
3	No non turn pin with rotation stops

0=20% RT tolerance, 2% LIN

STANDARD VALUES (Ω)	
RESISTANCE CODE	VALUE
102	1K
202	2K
502	5K
103	10K
203	20K
503	50K

Dimensions

90°

R 4.47 (.176)

TERMINAL PINS

REAR LID MARKINGS ON THIS FACE

MOUNTING SURFACE

HOUSING MARKINGS ON THIS FACE

22.22 (0.875) ± 0.75

8.77 (.345) ± 0.25

9.26 (.365) ± 0.4

3.18 (.125) ± 0.25

0.76 (.03) MAX

1.57 (.062)

0.8 (0.032)

0.8 (0.032)

3/8 - 32 UNEF - 2A

Ø 22.22 (.875)

Ø 6.34 (.2497) 0.0 -0.0127

Ø 8.89 (.350) MAX

Ø 9.52 (.375)

Ø 1.57 (.062)

7.92(.312)

1.57(.062)

1

2

3

Tolerances: Linear ± 0.50
Angular ± 2°

Dimensions: Millimeters (inches)