

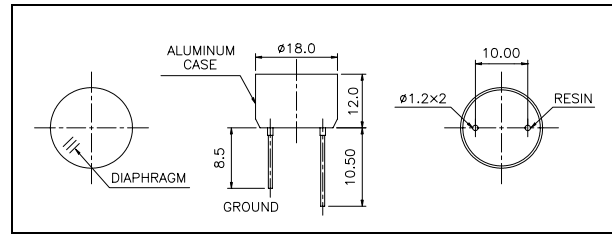
Sirens, Sounders & Transducers

| Order code | Manufacturer code | Description |
|------------|-------------------|--------------------------------------|
| 35-0182 | n/a | SEALED ULTRASONIC TRANSDUCER TX (RC) |
| 35-0184 | n/a | SEALED ULTRASONIC TRANSDUCER RX (RC) |
| 35-0184 | n/a | SEALED ULTRASONIC TRANSDUCER RX (RC) |

| | |
|--|--------------------------|
| Sirens, Sounders & Transducers | Page 1 of 3 |
| 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 |



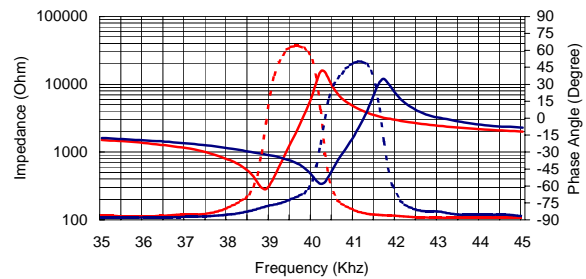
Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

400ER180 Impedance ————
 400ER180 Phase
 400ET180 Impedance ————
 400ET180 Phase

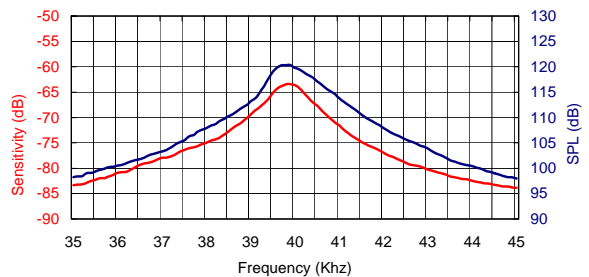


Specification

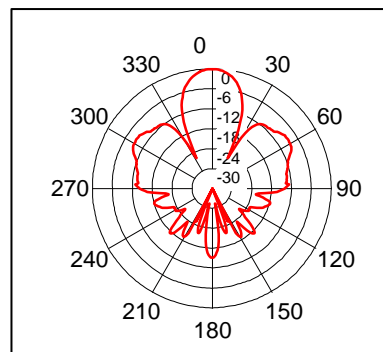
| | |
|--|------------------------------------|
| 400ET180 | Transmitter |
| 400ER180 | Receiver |
| Center Frequency | 40.0±1.0Khz |
| Bandwidth (-6dB) | 400ET180 1.5Khz 400ER180 1.5Khz |
| Transmitting Sound Pressure Level | 115dB min. |
| at 40.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm | |
| Receiving Sensitivity | -70dB min. |
| at 40.0Khz 0dB = 1 volt/μbar | |
| Capacitance at 1Khz | ±20% 2400 pF |
| Max. Driving Voltage (cont.) | 15Vrms |
| Total Beam Angle | -6dB 30° typical |
| Operation Temperature | -30 to 80°C |
| Storage Temperature | -40 to 85°C |

Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle: Tested at 40.0Khz frequency



All specification taken typical at 25°C
 Closer frequency tolerance can be supplied upon request.

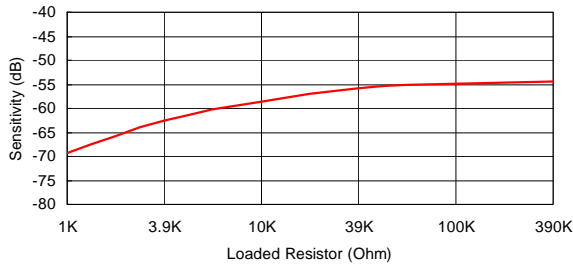
Model available:

| | | |
|---|------------|---------------------|
| 1 | 400ET/R180 | Aluminum Housing |
| 2 | 400ET/R18B | Black Alum. Housing |

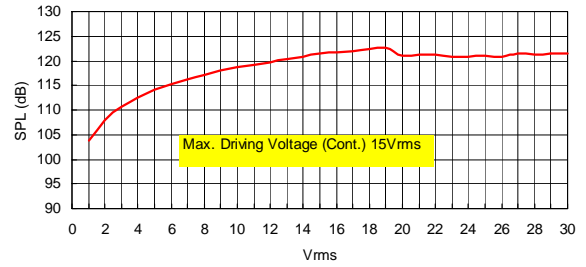
400ER180 Receiver

400ET180 Transmitter

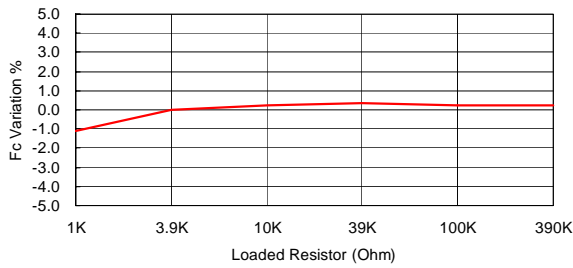
Sensitivity Variation vs. Loaded Resistor



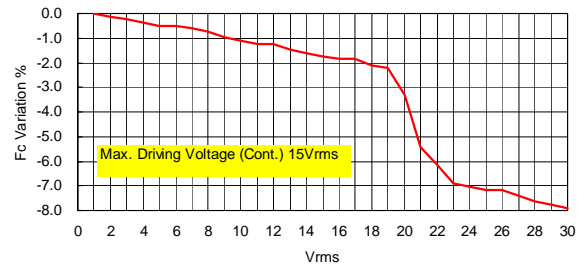
SPL Variation vs. Driving Voltage



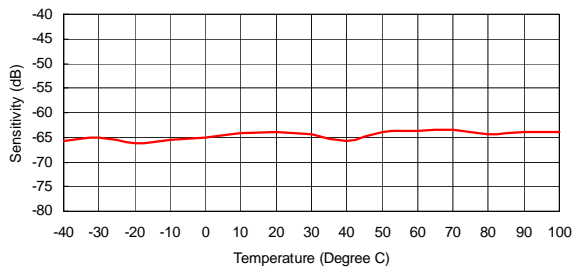
Center Frequency Shift vs. Loaded Resistor



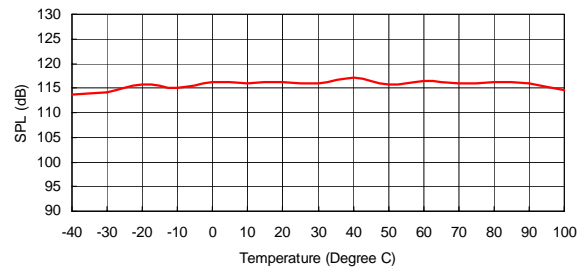
Center Frequency Shift vs. Driving Voltage



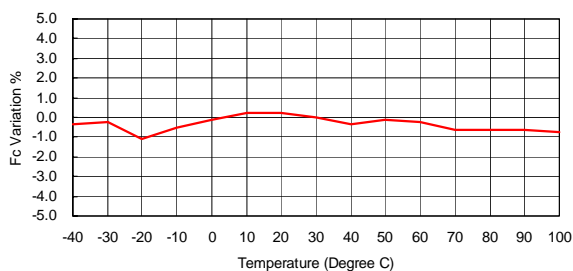
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature

