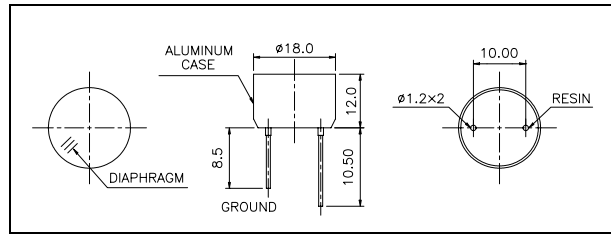




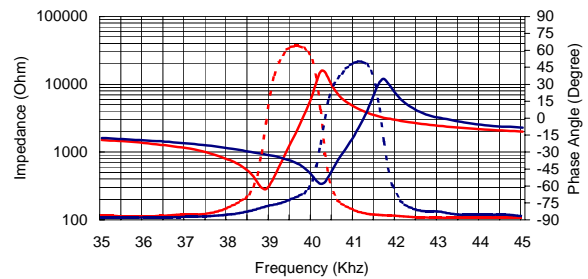
**Dimensions:** dimensions are in mm



**Impedance/Phase Angle vs. Frequency**

Tested under 1Vrms Oscillation Level

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

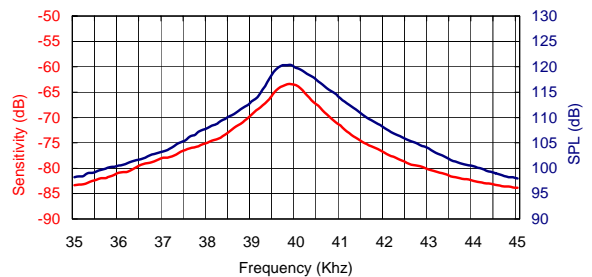


**Specification**

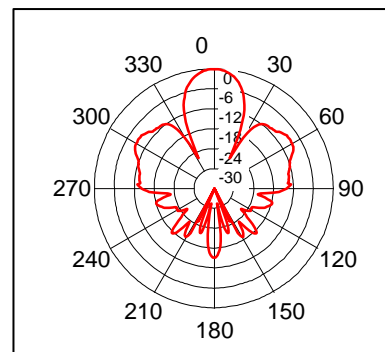
<b>400ET180</b>	Transmitter
<b>400ER180</b>	Receiver
<b>Center Frequency</b>	40.0±1.0Khz
<b>Bandwidth (-6dB)</b>	400ET180 1.5Khz 400ER180 1.5Khz
<b>Transmitting Sound Pressure Level</b>	115dB min.
at 40.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm	
<b>Receiving Sensitivity</b>	-70dB min.
at 40.0Khz 0dB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

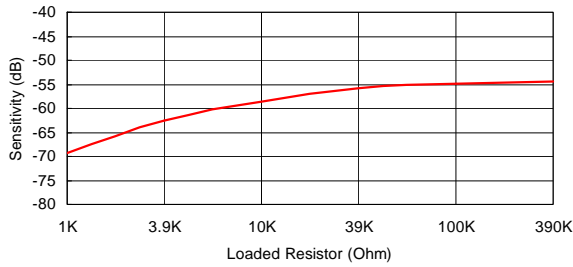
Model available:

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

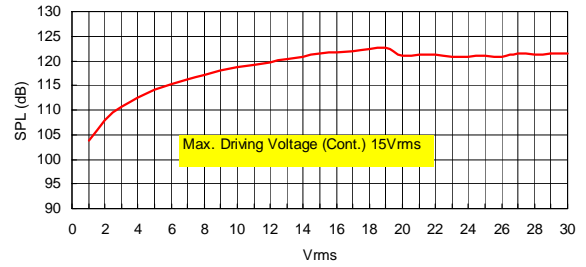
**400ER180 Receiver**

**400ET180 Transmitter**

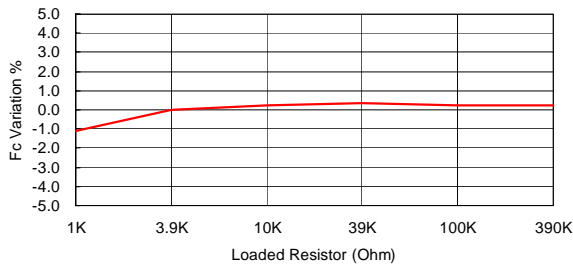
**Sensitivity Variation vs. Loaded Resistor**



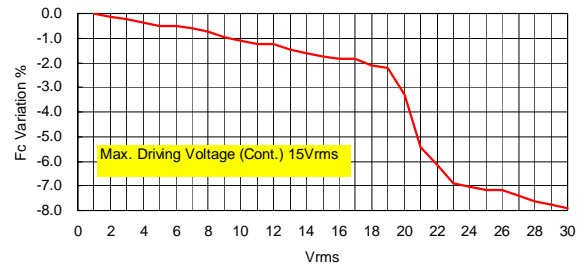
**SPL Variation vs. Driving Voltage**



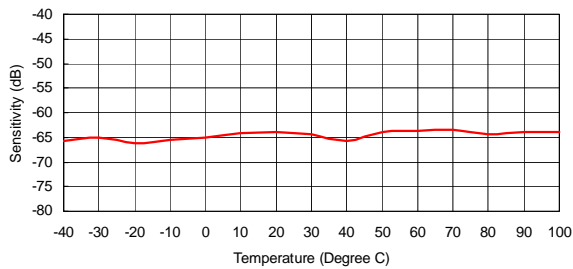
**Center Frequency Shift vs. Loaded Resistor**



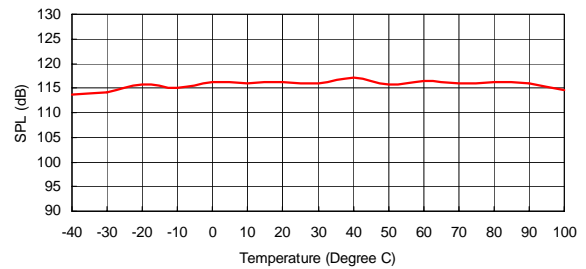
**Center Frequency Shift vs. Driving Voltage**



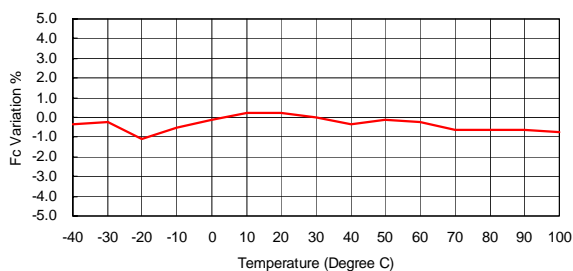
**Sensitivity Variation vs. Temperature**



**SPL Variation vs. Temperature**



**Center Frequency Shift vs. Temperature**



**Center Frequency Shift vs. Temperature**

