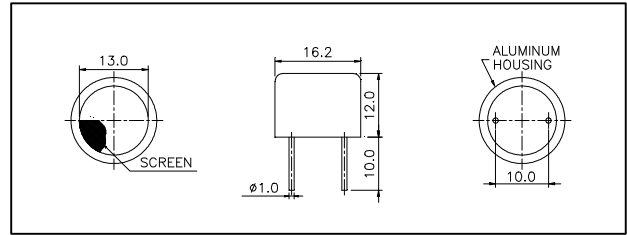


### Air Ultrasonic Ceramic Transducers

250ST/R160



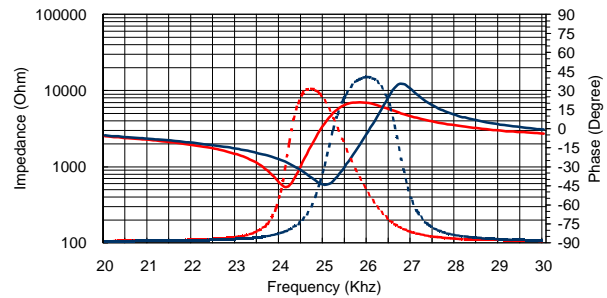
**Dimensions:** dimensions are in mm



### Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

250SR160 Impedance —————  
 250SR160 Phase .....  
 250ST160 Impedance —————  
 250ST160 Phase .....  
 (Note: The legend in the image uses red for SR160 and blue for ST160, with solid lines for impedance and dotted lines for phase.)

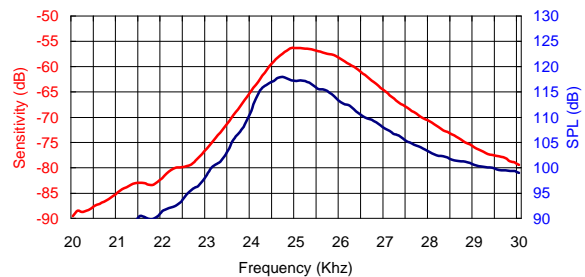


### Specification

<b>250ST160</b>	Transmitter
<b>250SR160</b>	Receiver
<b>Center Frequency</b>	25.0±1.0Khz
<b>Bandwidth (-6dB)</b>	250ST160: 2.0Khz 250SR160: 2.0Khz
<b>Transmitting Sound Pressure Level</b>	112dB min.
at 25.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm	
<b>Receiving Sensitivity</b>	-62dB min.
at 25.0Khz 0dB = 1 volt/μbar	
<b>Capacitance at 1Khz</b>	±20% 2400 pF
<b>Max. Driving Voltage (cont.)</b>	20Vrms
<b>Total Beam Angle</b>	-6dB 85° 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

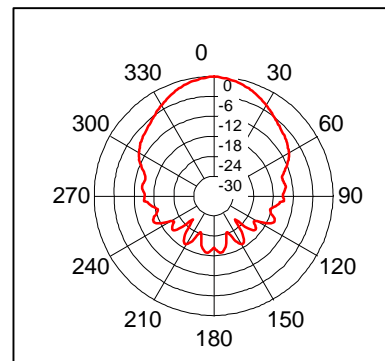


All specification taken typical at 25°C  
Closer frequency tolerance can be supplied upon request.

Model available:

1	250ST/R160	Aluminum Housing
2	250ST/R16B	Black Al. Housing
3	250ST/R16F	Al. Housing w/Solid Grid
4	250ST/R16P	Plastic Housing

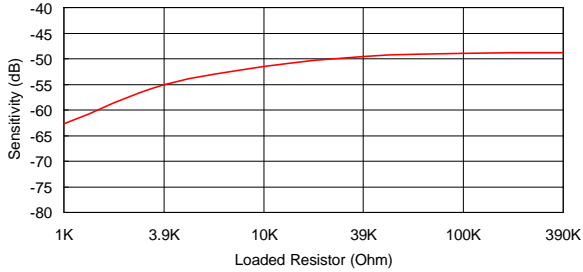
**Beam Angle:** Tested at 25.0Khz frequency



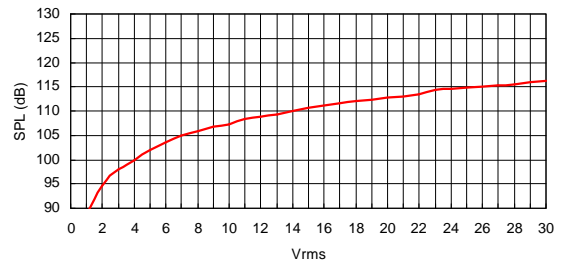
**250SR160 Receiver**

**250ST160 Transmitter**

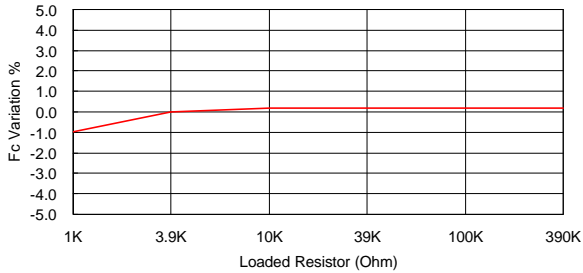
**Sensitivity Variation vs. Loaded Resistor**



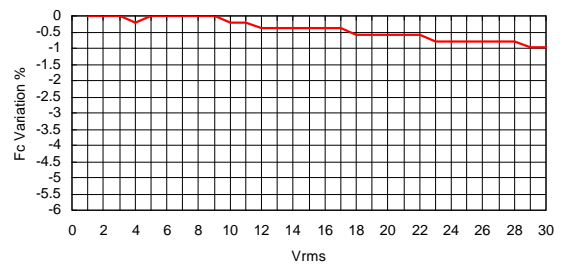
**SPL Variation vs. Driving Voltage**



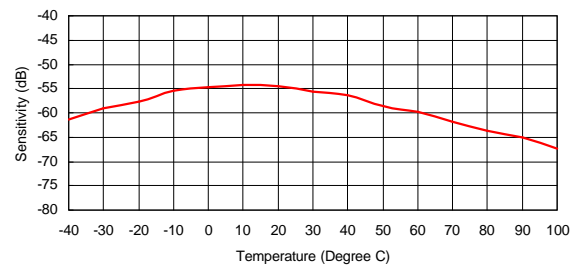
**Center Frequency Shift vs. Loaded Resistor**



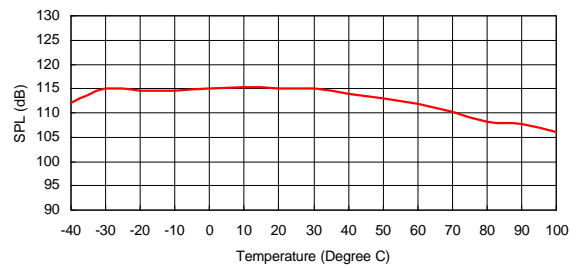
**Center Frequency Shift vs. Driving Voltage**



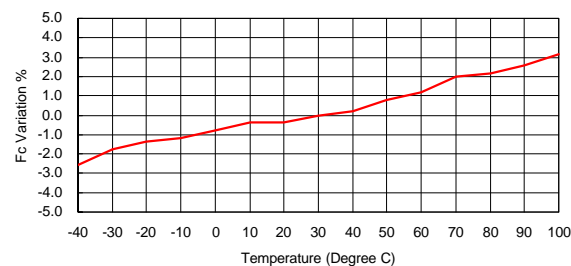
**Sensitivity Variation vs. Temperature**



**SPL Variation vs. Temperature**



**Center Frequency Shift vs. Temperature**



**Center Frequency Shift vs. Temperature**

