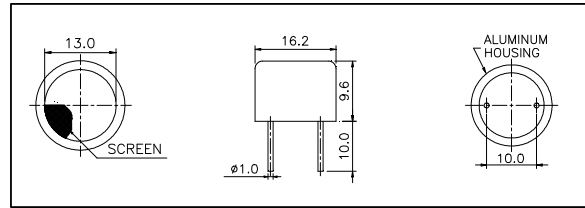




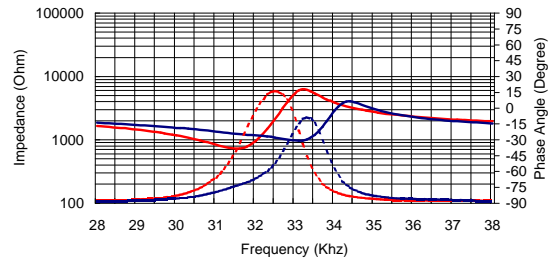
**Dimensions:** dimensions are in mm



**Impedance/Phase Angle vs. Frequency**

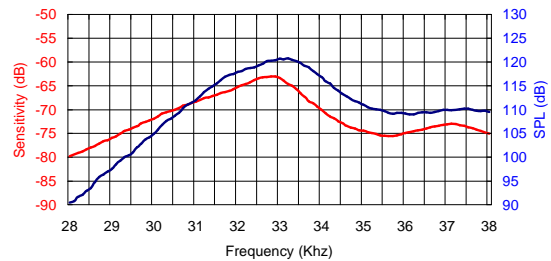
Tested under 1Vrms Oscillation Level

- 328SR160 Impedance —
- 328SR160 Phase ⋯
- 328ST160 Impedance —
- 328ST160 Phase ⋯

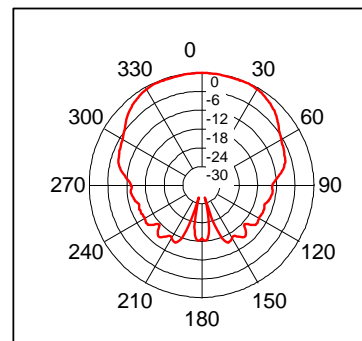


**Sensitivity/Sound Pressure Level**

Tested under 10Vrms @30cm



**Beam Angle:** Tested at 32.8KHz frequency



**Specification**

<b>328ST160</b>	Transmitter
<b>328SR160</b>	Receiver
<b>Center Frequency</b>	32.8±1.0KHz
<b>Bandwidth (-6dB)</b>	328ST160 2.5KHz
	328SR160 2.5KHz
<b>Transmitting Sound Pressure Level</b>	115dB min.
at 32.8KHz; 0dB re 0.0002μbar per 10Vrms at 30cm	
<b>Receiving Sensitivity</b>	-67dB min.
at 32.8KHz 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 100° typical
<b>Operation Temperature</b>	-30 to 80°C
<b>Storage Temperature</b>	-40 to 85°C

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

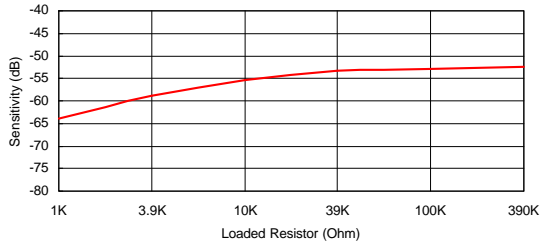
Model available:

1	328ST/R160	Aluminum Housing
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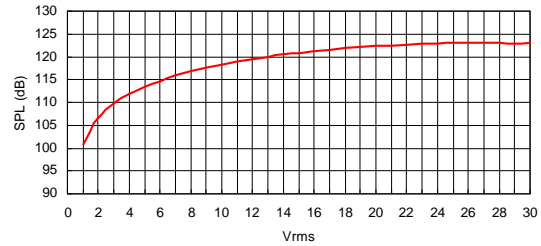
**328SR160 Receiver**

**328ST160 Transmitter**

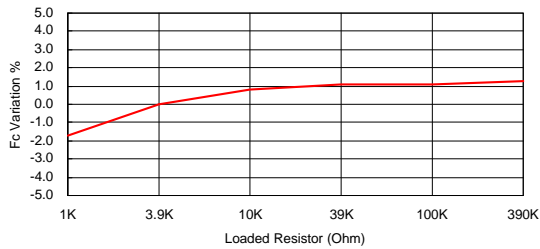
**Sensitivity Variation vs. Loaded Resistor**



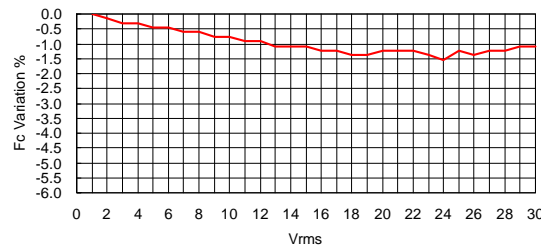
**SPL Variation vs. Driving Voltage**



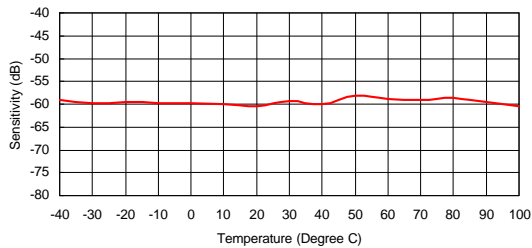
**Center Frequency Shift vs. Loaded Resistor**



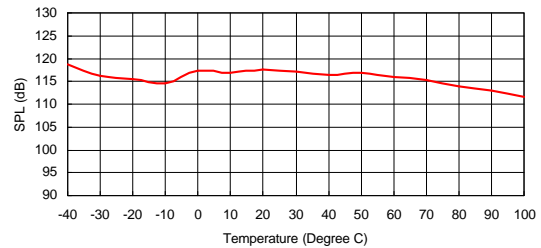
**Center Frequency Shift vs. Driving Voltage**



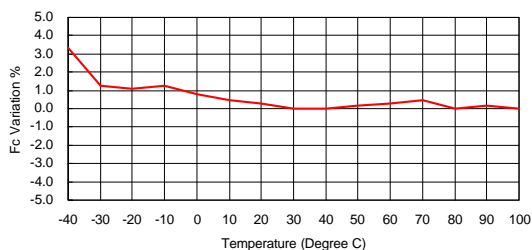
**Sensitivity Variation vs. Temperature**



**SPL Variation vs. Temperature**



**Center Frequency Shift vs. Temperature**



**Center Frequency Shift vs. Temperature**

