

Air Ultrasonic Ceramic Transducers

250ST/R160



Specification

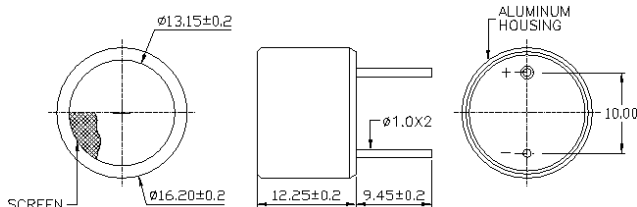
250ST160	Transmitter
250SR160	Receiver
Center Frequency	25.0±1.0KHz
Bandwidth (-6dB)	250ST 2.0KHz
	250SR 2.0KHz
Transmitting Sound Pressure Level at 25.0KHz; 0dB re 0.0002μbar per 10Vrms at 30cm	112dB min.
Receiving Sensitivity at 25.0KHz 0dB = 1 volt/μbar	-62dB min.
Capacitance at 1KHz ±20%	2600 pF
Max. Driving Voltage (cont.)	20Vrms
Total Beam Angle -6dB	85° typical
Operation Temperature	-30 to 70°C
Storage Temperature	-40 to 80°C

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

Model available:

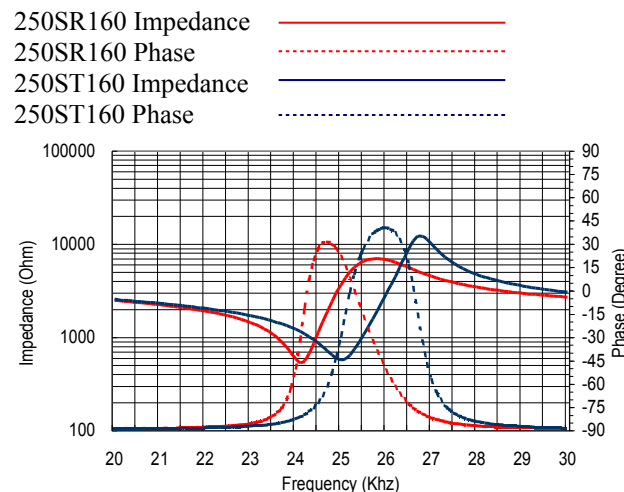
1	250ST/R160	Aluminum Housing
2	250ST/R16B	Black Al. Housing
3	250ST/R16P	Plastic Housing

Dimensions: dimensions are in mm



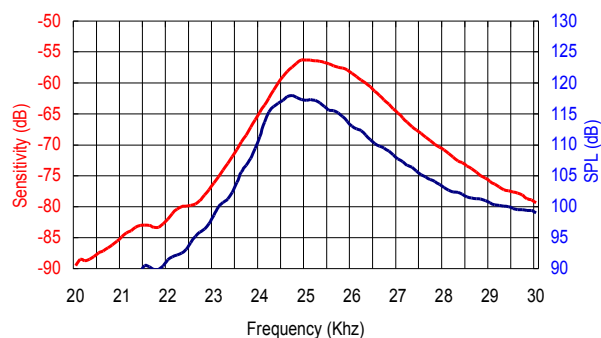
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level.



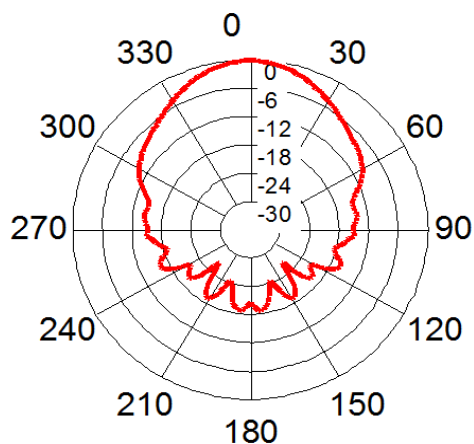
Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



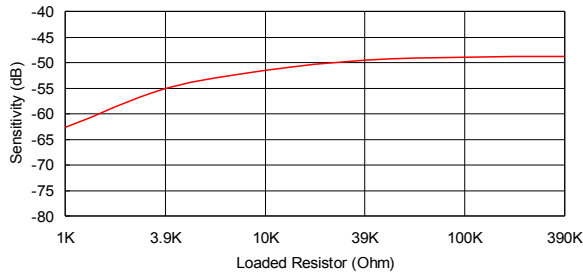
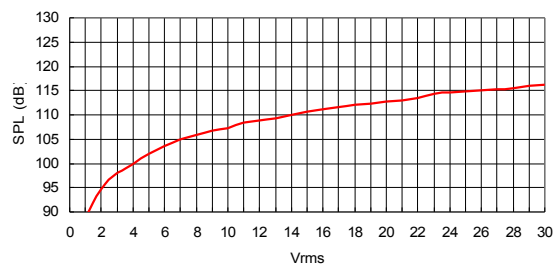
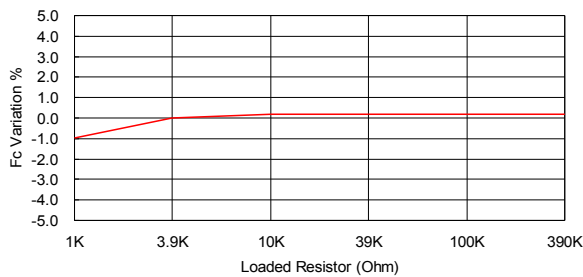
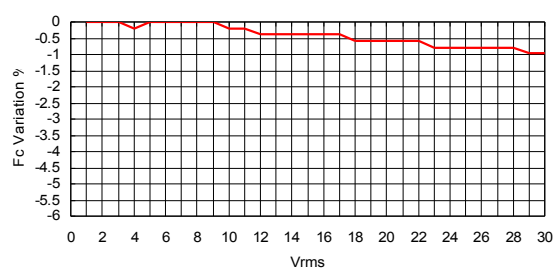
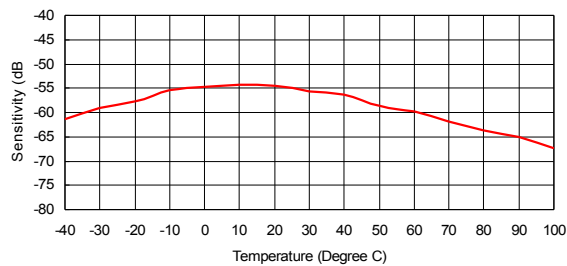
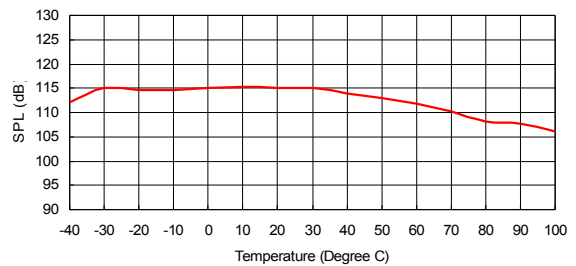
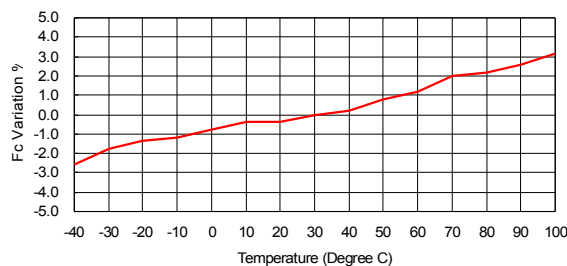
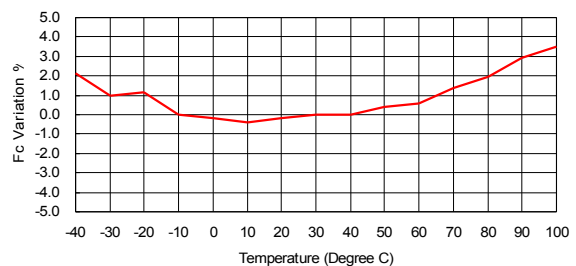
Beam Angle

Tested at 25.0KHz frequency



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250SR160 Receiver**Sensitivity Variation vs. Loaded Resistor****250ST160 Transmitter****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**

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