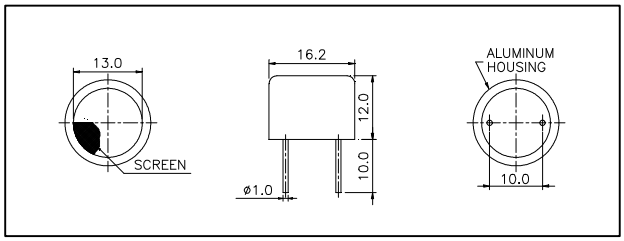
Air Ultrasonic Ceramic Transducers — 250ST/R160

Dimensions: dimensions are in mm



Specification

250ST160		Transmitter
250SR160		Receiver
Center Frequency		25.0±1.0Khz
Bandwidth (-6dB)	250ST160	2.0Khz
	250SR160	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%	2400 pF
Max. Driving Voltage (cont.)		20Vrms
Total Beam Angle	-6dB	85° typical
Operation Temperature		-30 to 80°C
Storage Temperature		-40 to 85°C

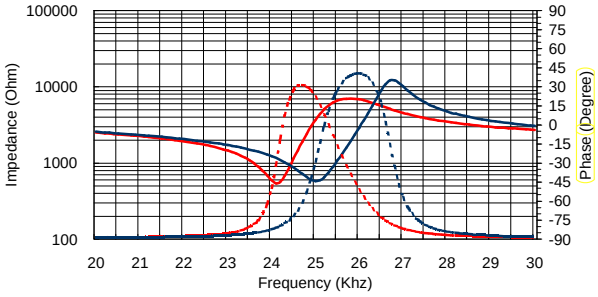
All specification taken typical at 25°C
Closer frequency tolerance can be supplied upon request.

Model available:

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

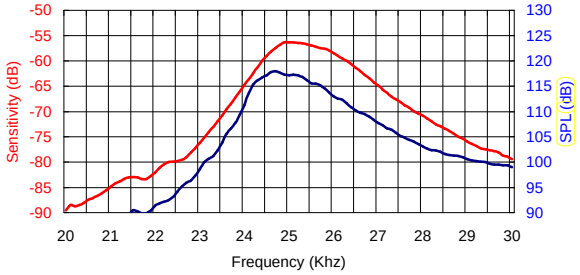
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level
250SR160 Impedance
250SR160 Phase
250ST160 Impedance
250ST160 Phase

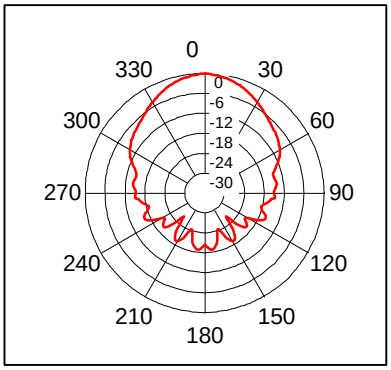


Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm

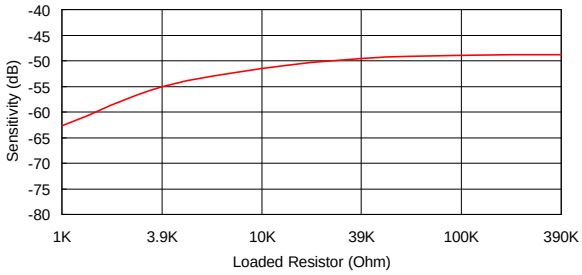


Beam Angle: Tested at 25.0Khz frequency

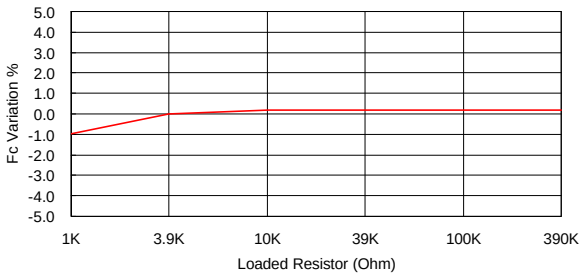


250SR160 Receiver

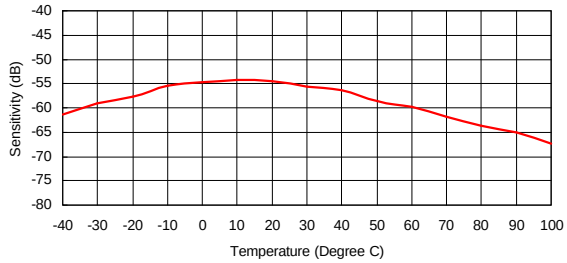
Sensitivity Variation vs. Loaded Resistor



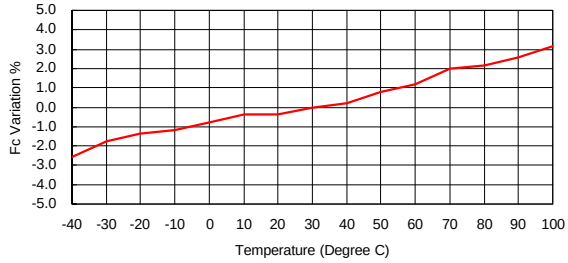
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

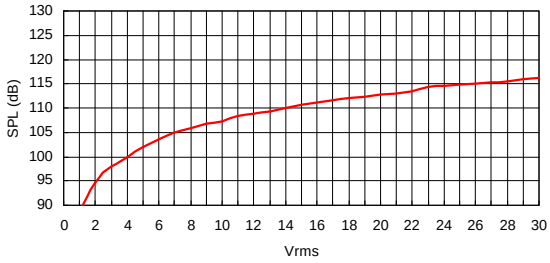


Center Frequency Shift vs. Temperature

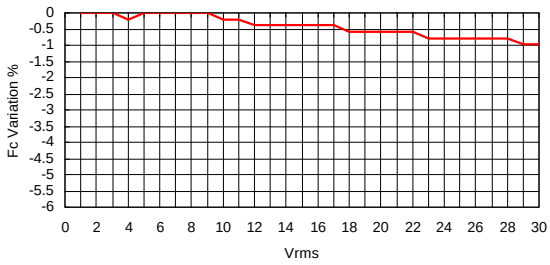


250ST160 Transmitter

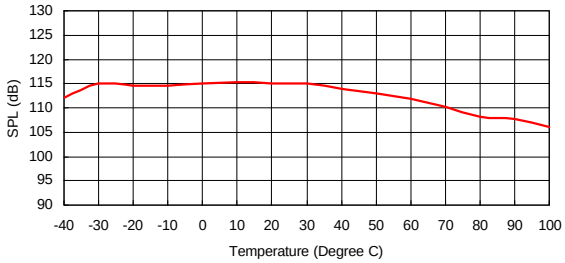
SPL Variation vs. Driving Voltage



Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature