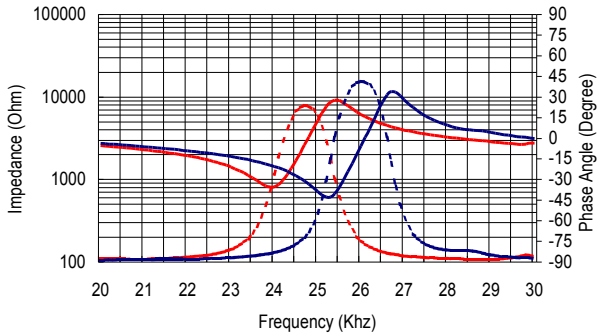
Air Ultrasonic Ceramic Transducers — 250ST/R180

Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

250SR180 Impedance
250SR180 Phase
250ST180 Impedance
250ST180 Phase



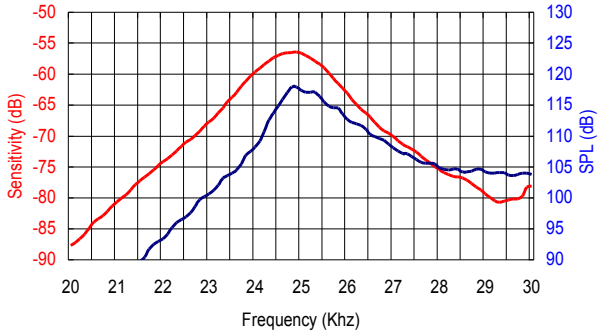
Specification

250ST180		Transmitter
250SR180		Receiver
Center Frequency		25.0±1.0KHz
Bandwidth (-6dB)	250ST180	1.5KHz
	250SR180	1.8KHz
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		95° 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.

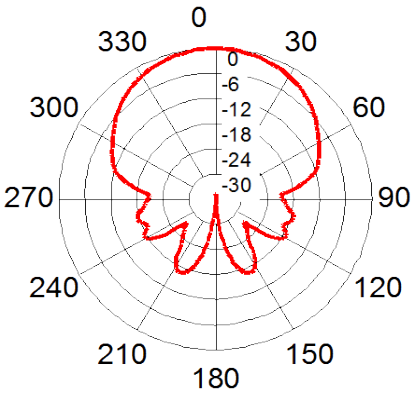
Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle

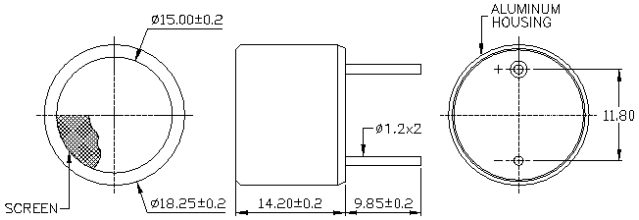
Tested at 25.0Khz frequency



Model available:

1	250ST/R180	Aluminum Housing
2	250ST/R18B	Black Al. Housing

Dimensions: dimensions are in mm



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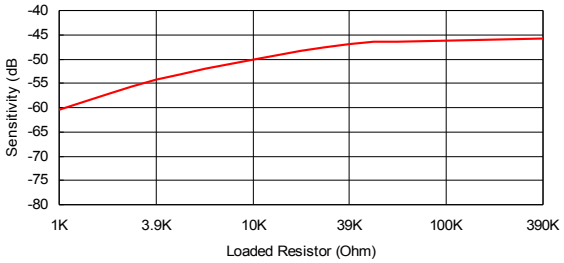
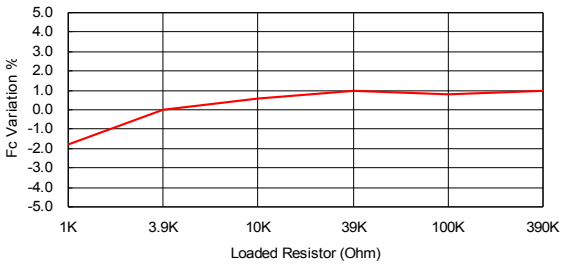
250SR180 Receiver

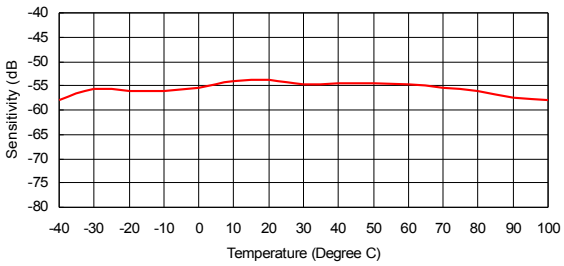
Sensitivity Variation vs. Loaded Resistor



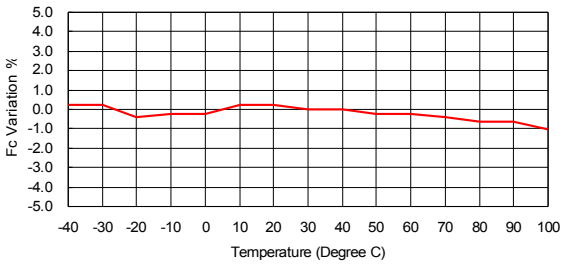
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

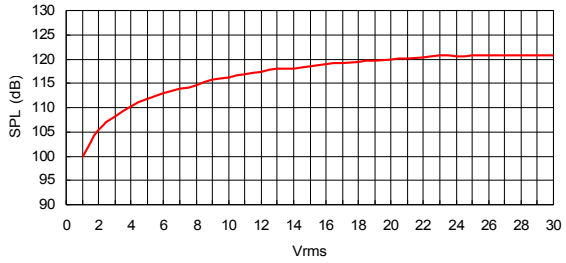


Center Frequency Shift vs. Temperature

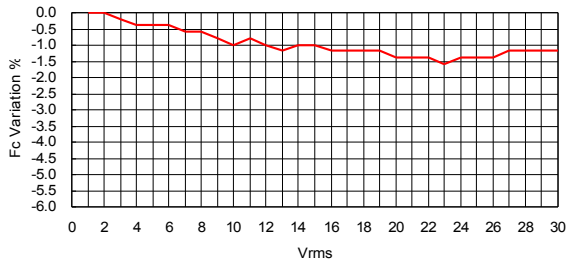


250ST180 Transmitter

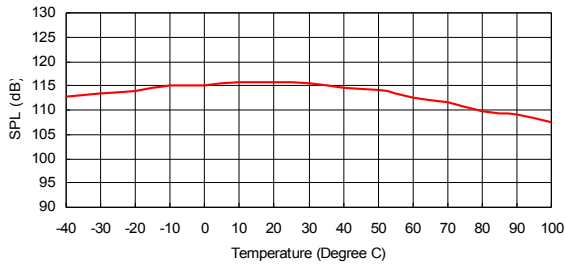
SPL Variation vs. Driving Voltage



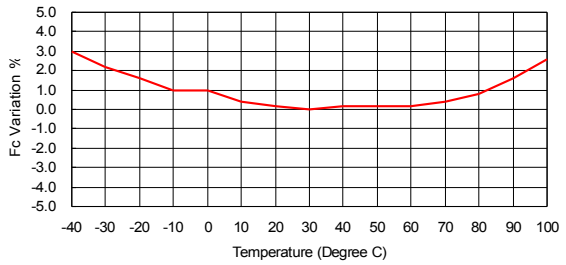
Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



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