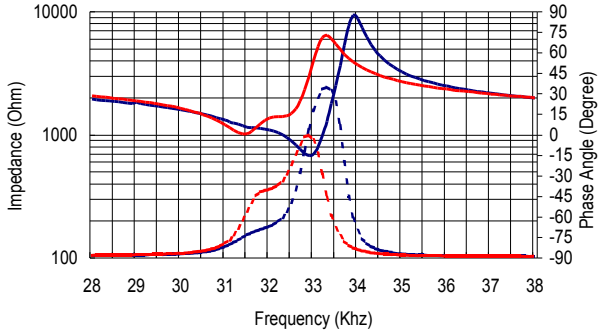
Air Ultrasonic Ceramic Transducers 328ST/R180

Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

328SR180 Impedance
328SR180 Phase
328ST180 Impedance
328ST180 Phase



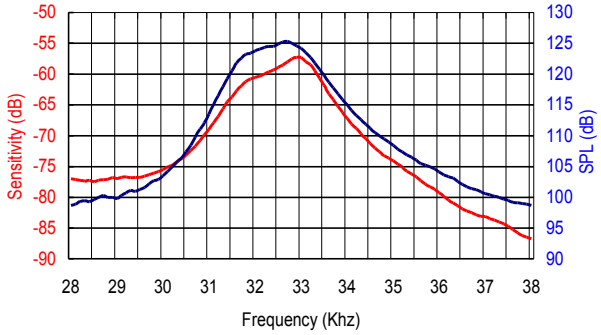
Specification

328ST180 328SR180		Transmitter Receiver
Center Frequency		32.8±1.0KHz
Bandwidth (-6dB)	328ST180 328SR180	2KHz 2KHz
Transmitting Sound Pressure Level at 32.8KHz; 0dB re 0.0002µbar per 10Vrms at 30cm		117dB min.
Receiving Sensitivity at 32.8KHz 0dB = 1 volt/µbar		-64dB min.
Capacitance at 1KHz ±20%		2400 pF
Max. Driving Voltage (cont.)		20Vrms
Total Beam Angle	-6dB	45° 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.

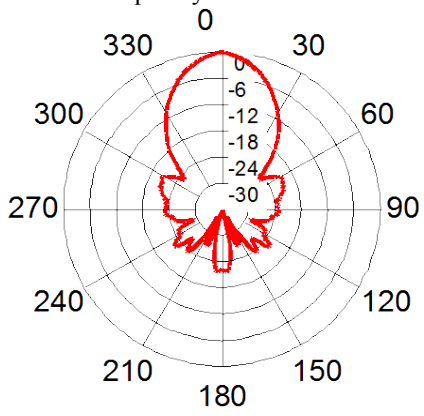
Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle

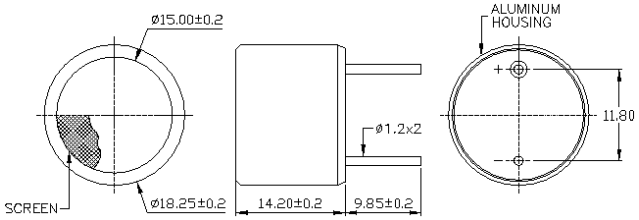
Tested at 32.8Khz frequency



Model available:

1	328ST/R180	Aluminum Housing
2	328ST/R18B	Black Al. Housing

Dimensions: dimensions are in mm



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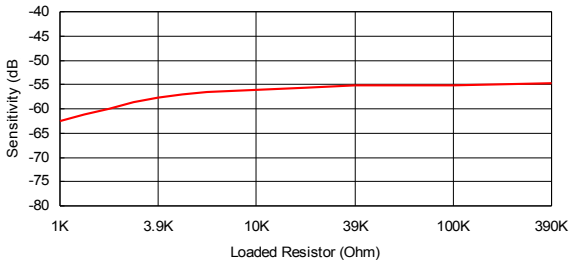
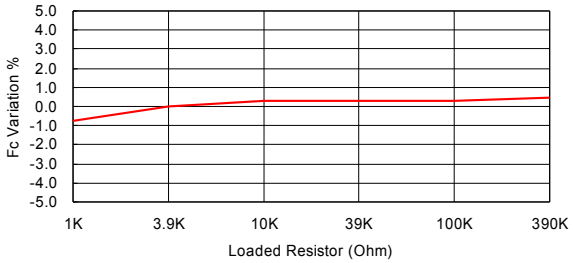
328SR180 Receiver

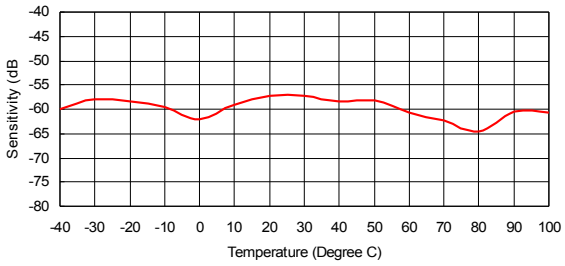
Sensitivity Variation vs. Loaded Resistor



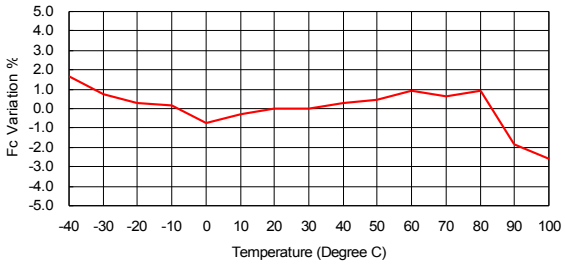
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

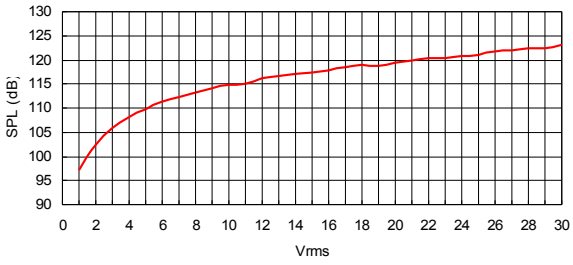


Center Frequency Shift vs. Temperature

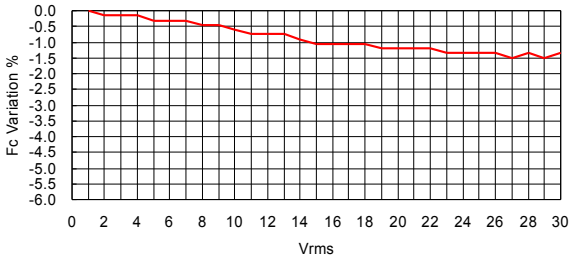


328ST180 Transmitter

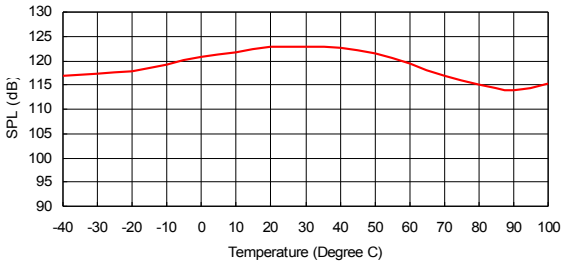
SPL Variation vs. Driving Voltage



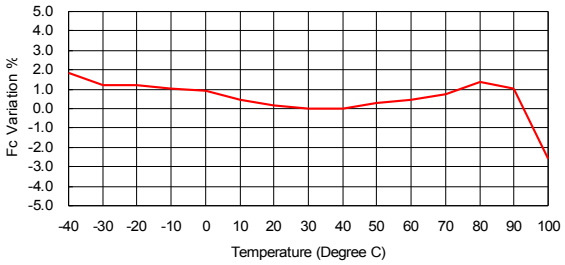
Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



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