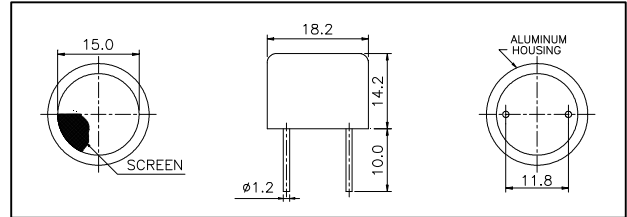


PROWAVE Air Ultrasonic Ceramic Transducers 250ST/R180



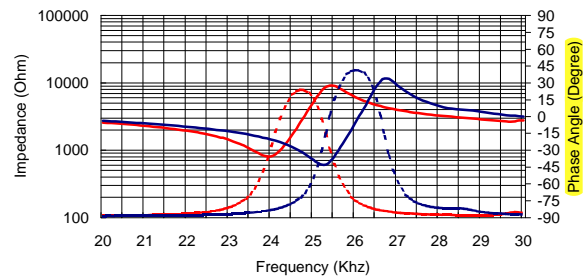
Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

250SR180 Impedance —————
 250SR180 Phase - - - - -
 250ST180 Impedance —————
 250ST180 Phase - - - - -

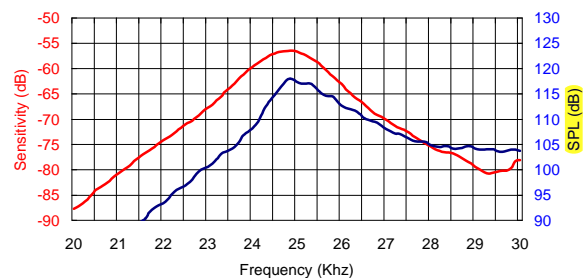


Specification

250ST180	Transmitter
250SR180	Receiver
Center Frequency	25.0±1.0Khz
Bandwidth (-6dB)	250ST180 1.5Khz 250SR180 1.8Khz
Transmitting Sound Pressure Level	112dB min.
at 25.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm	
Receiving Sensitivity	-62dB min.
at 25.0Khz 0dB = 1 volt/μbar	
Capacitance at 1Khz	±20% 2400 pF
Max. Driving Voltage (cont.)	20Vrms
Total Beam Angle	-6dB 95° typical
Operation Temperature	-30 to 80°C
Storage Temperature	-40 to 85°C

Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



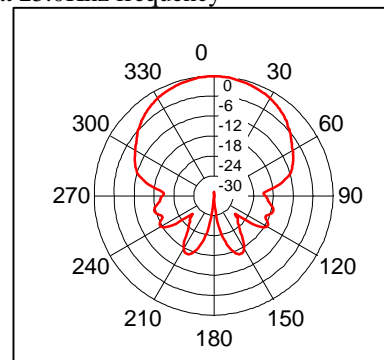
All specification taken typical at 25°C
Closer frequency tolerance can be supplied upon request.

Model available:

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

Beam Angle

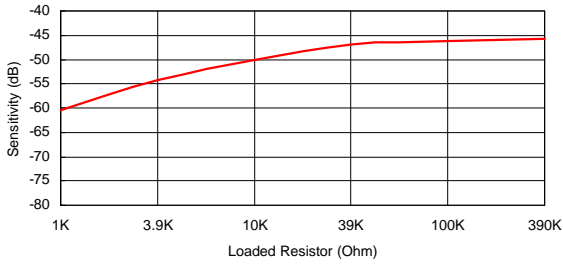
Tested at 25.0Khz frequency



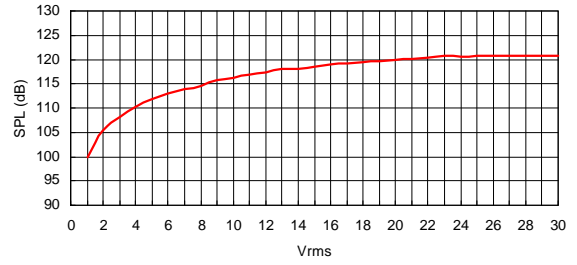
250SR180 Receiver

250ST180 Transmitter

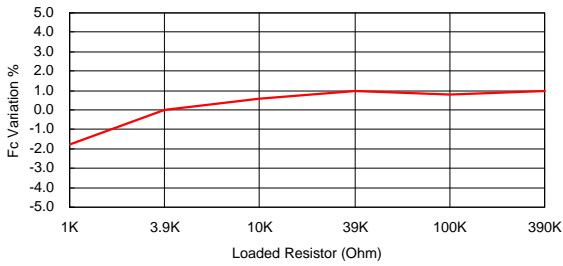
Sensitivity Variation vs. Loaded Resistor



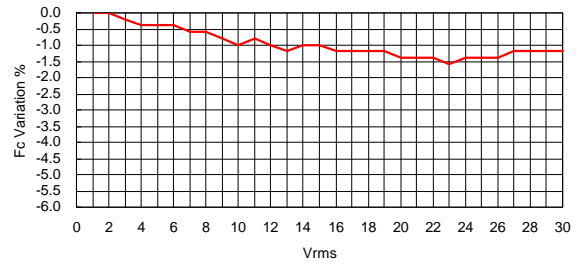
SPL Variation vs. Driving Voltage



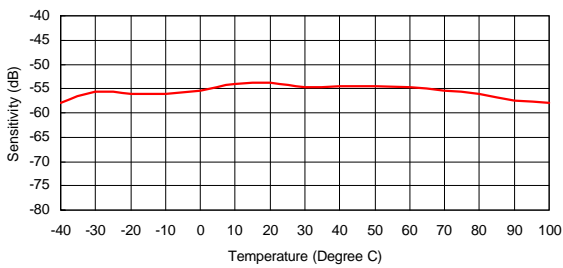
Center Frequency Shift vs. Loaded Resistor



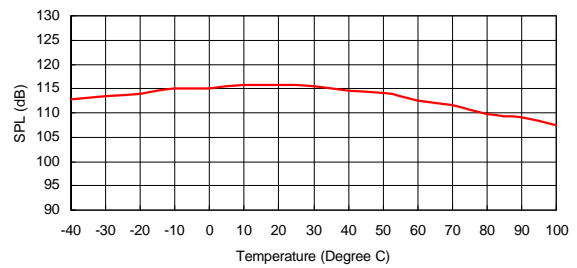
Center Frequency Shift vs. Driving Voltage



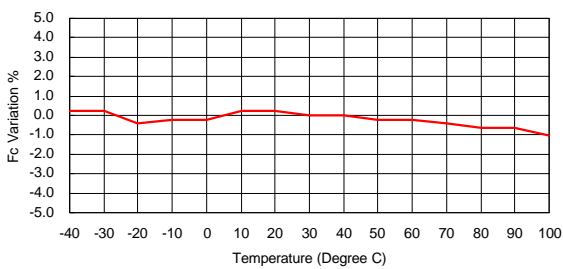
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature

