

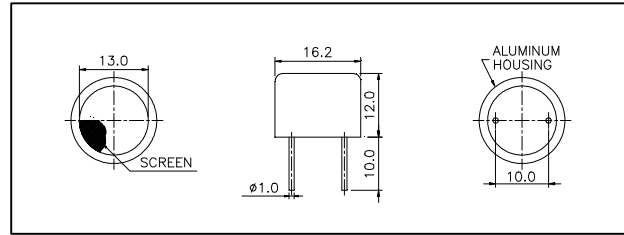
PROWAVE

Air Ultrasonic Ceramic Transducers

250ST/R160



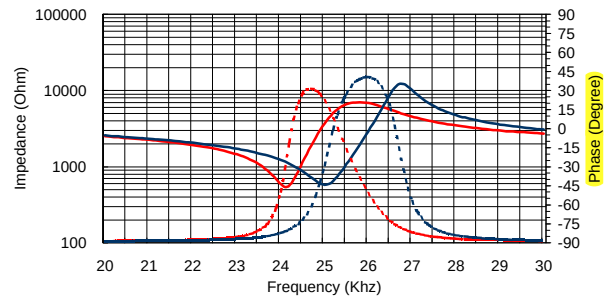
Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

250SR160 Impedance —————
250SR160 Phase
250ST160 Impedance —————
250ST160 Phase



Specification

250ST160

250SR160

Center Frequency

Bandwidth (-6dB) 250ST160
250SR160

Transmitting Sound Pressure Level

at 25.0KHz; 0dB re 0.0002μbar
per 10Vrms at 30cm

Receiving Sensitivity

at 25.0KHz 0dB = 1 volt/μbar

Capacitance at 1KHz ±20%

Max. Driving Voltage (cont.)

Total Beam Angle -6dB

Operation Temperature

Storage Temperature

Transmitter

Receiver

25.0±1.0KHz

2.0KHz

2.0KHz

112dB min.

-62dB min.

2400 pF

20Vrms

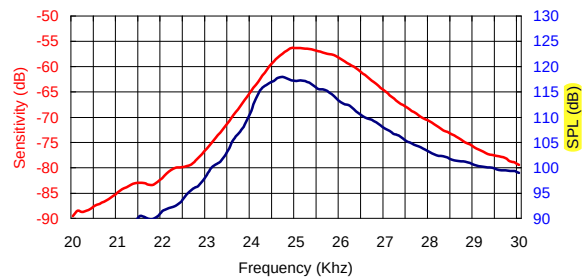
85° typical

-30 to 80°C

-40 to 85°C

Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm

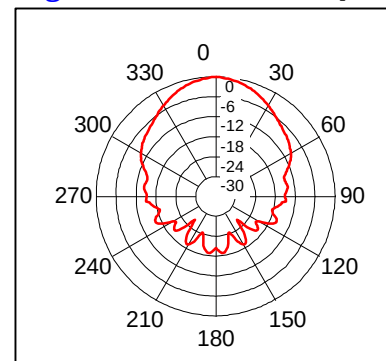


All specification taken typical at 25°C
Closer frequency tolerance can be supplied
upon request.

Model available:

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

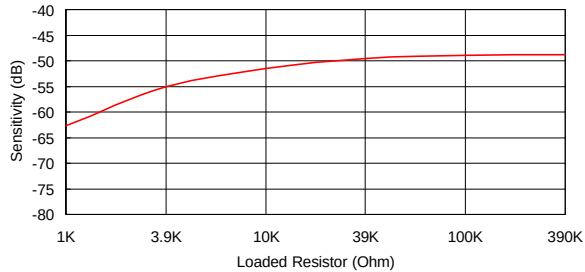
Beam Angle: Tested at 25.0KHz frequency



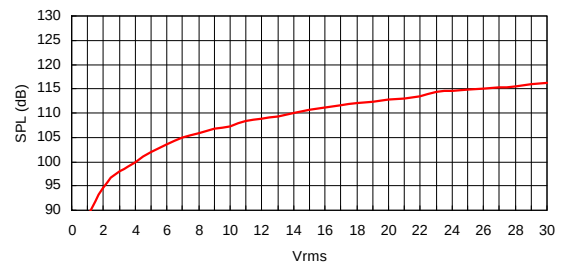
250SR160 Receiver

250ST160 Transmitter

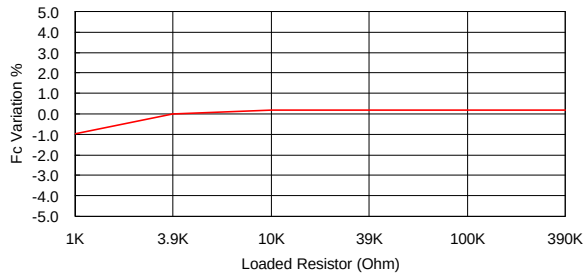
Sensitivity Variation vs. Loaded Resistor



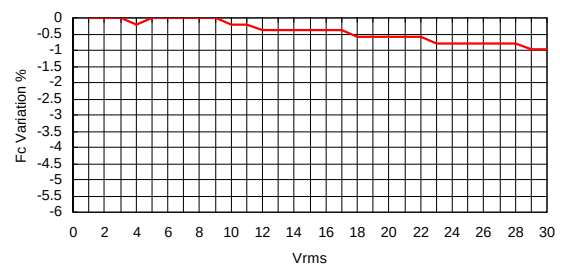
SPL Variation vs. Driving Voltage



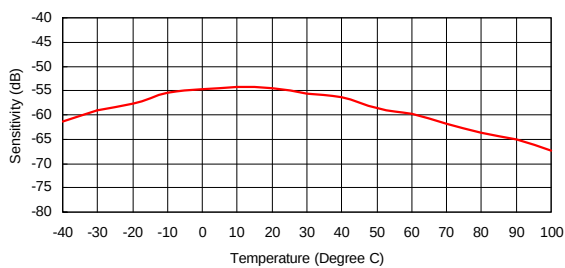
Center Frequency Shift vs. Loaded Resistor



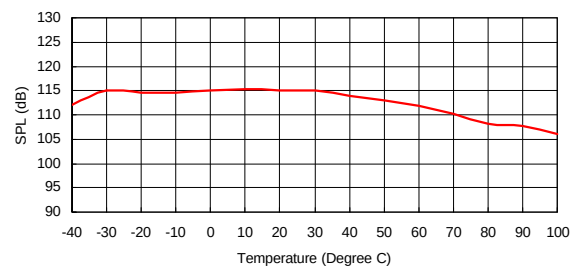
Center Frequency Shift vs. Driving Voltage



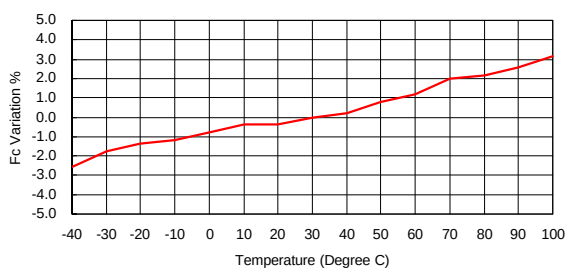
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature

