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Air Ultrasonic Ceramic Transducers

400ST/R120



Specification

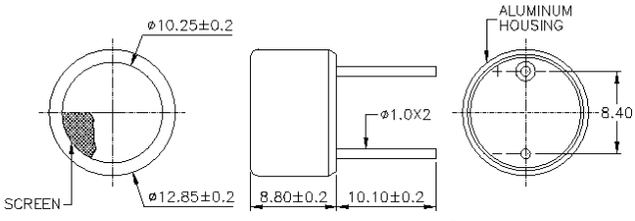
400ST120		Transmitter
400SR120		Receiver
Center Frequency		40.0±1.0KHz
Bandwidth (-6dB)	400ST120	2.0KHz
	400SR120	2.0KHz
Transmitting Sound Pressure Level at 40.0KHz; 0dB re 0.0002µbar per 10Vrms at 30cm		115dB min.
Receiving Sensitivity at 40.0KHz 0dB = 1 volt/µbar		-67dB min.
Capacitance at 1KHz ±20%		2400 pF
Max. Driving Voltage (cont.)		20Vrms
Total Beam Angle -6dB		85° 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.

Model available:

1	400ST/R120	Aluminum Housing
2	400ST/R12B	Black Al. Housing

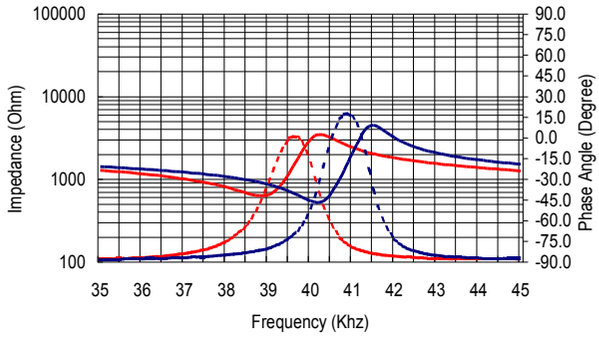
Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

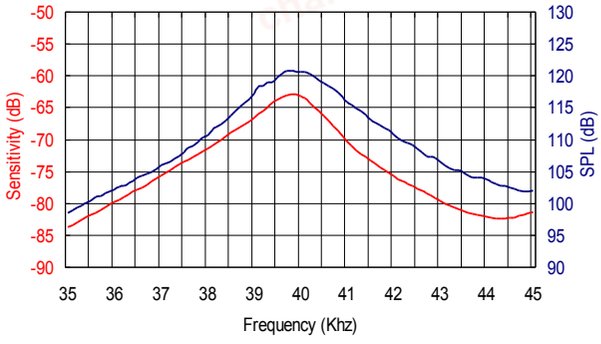
Tested under 1Vrms Oscillation Level

400SR120 Impedance
400SR120 Phase
400ST120 Impedance
400ST120 Phase



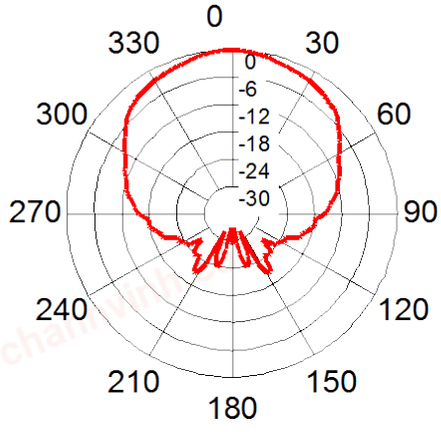
Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle

Tested at 40.0Khz frequency



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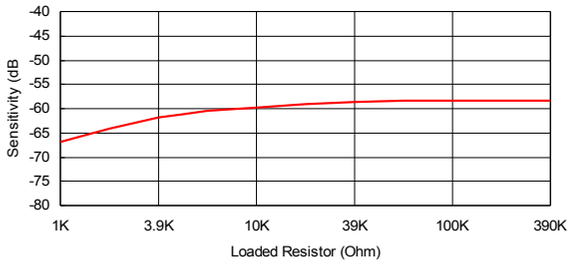
Http://www.pro-wave.com.tw ; E-mail: sales@pro-wave.com.tw ; Tel: 886-2-22465101 ; Fax: 886-2-22465105

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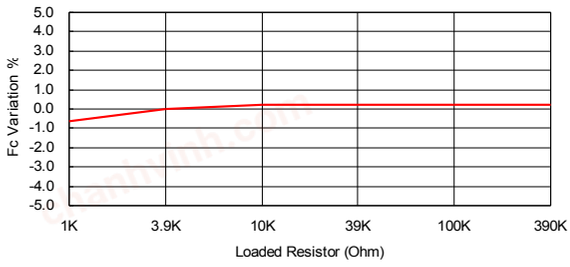
Air Ultrasonic Ceramic Transducers 400ST/R120

400SR120 Receiver

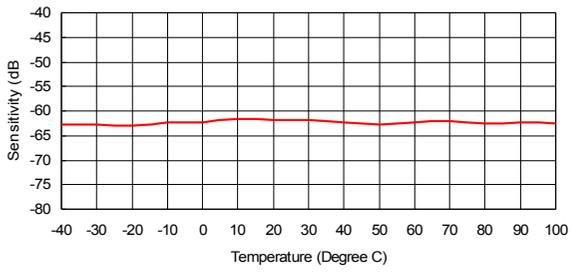
Sensitivity Variation vs. Loaded Resistor



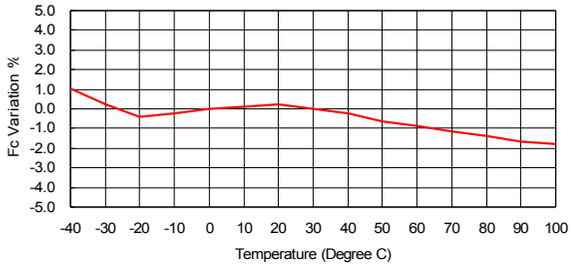
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

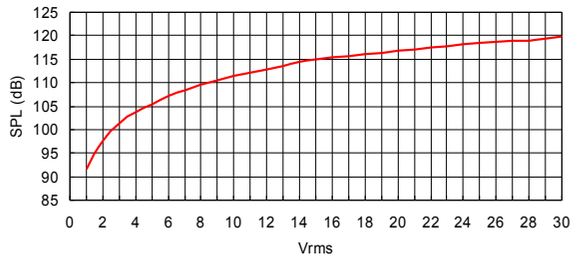


Center Frequency Shift vs. Temperature

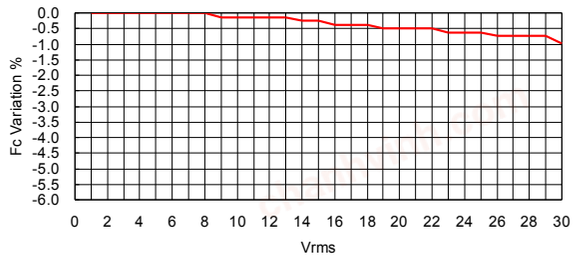


400ST120 Transmitter

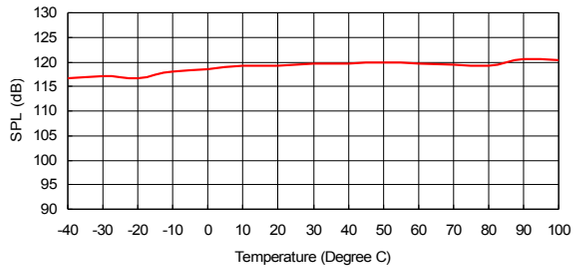
SPL Variation vs. Driving Voltage



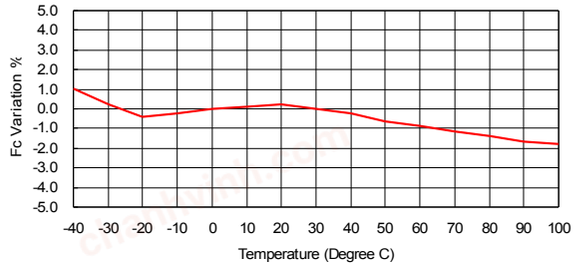
Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



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