Air Ultrasonic Ceramic Transducers 400ET/R18S

Specification

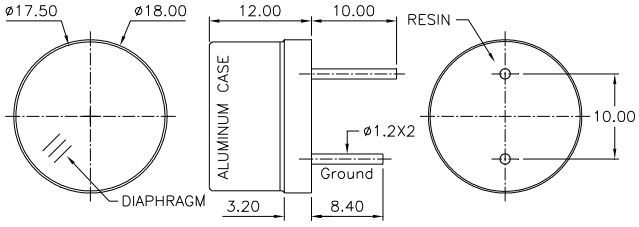
400ET18S 400ER18S		Transmitter Receiver
Center Frequency		40.0±1.0KHz
Bandwidth (-6dB)	400ET18S 400ER18S	1.5KHz 1.5KHz
Transmitting Sound Pressure Level at 40.0KHz; 0dB re 0.0002μbar per 10Vrms at 30cm		110dB min.
Receiving Sensitivity at 40.0KHz 0dB = 1 volt/μbar		-70dB min.
Capacitance at 1KHz ±20%		2900 pF
Max. Driving Voltage (cont.)		15Vrms
Total Beam Angle (-6dB Main Beam)		35° 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	400ET/R18S	Aluminum Housing

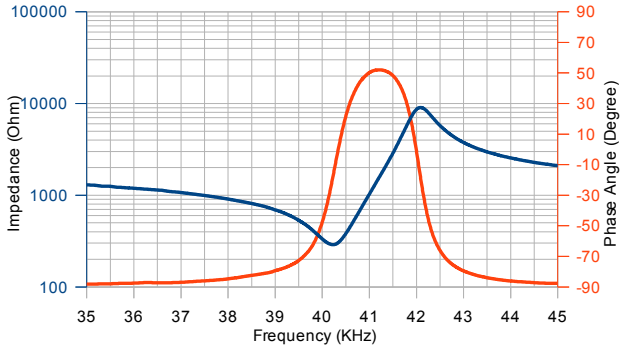
Dimensions: dimensions are in mm



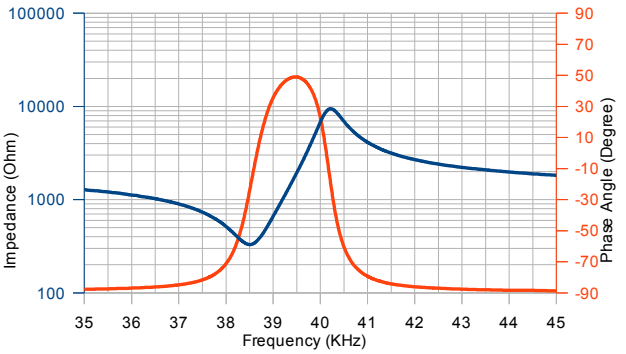
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

400ET18S

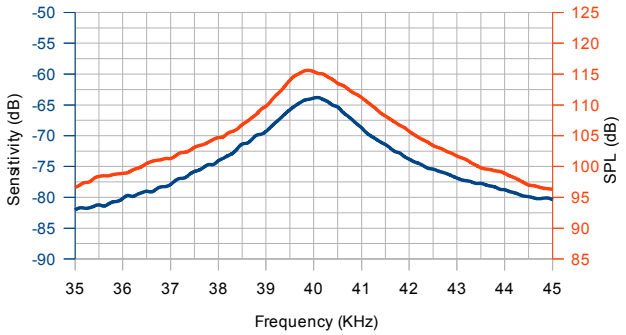


400ER18S

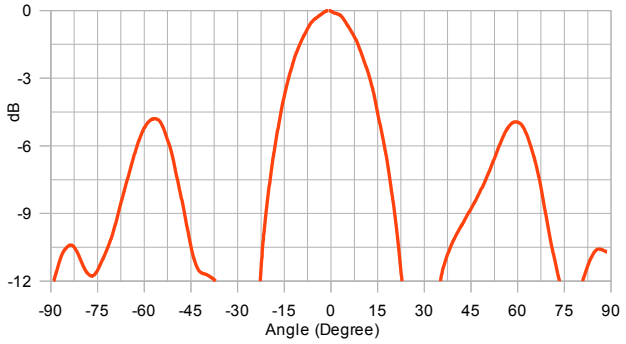


Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle Tested at 40.0Khz frequency



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Pro-Wave Electronics Corporation

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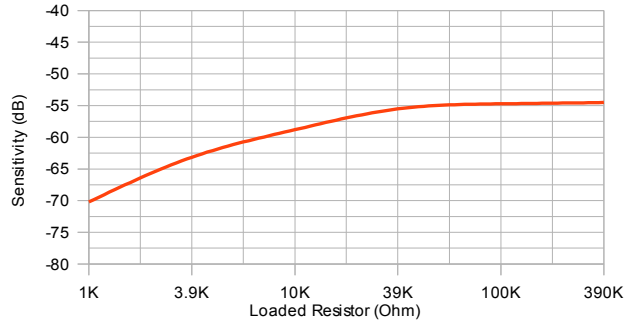
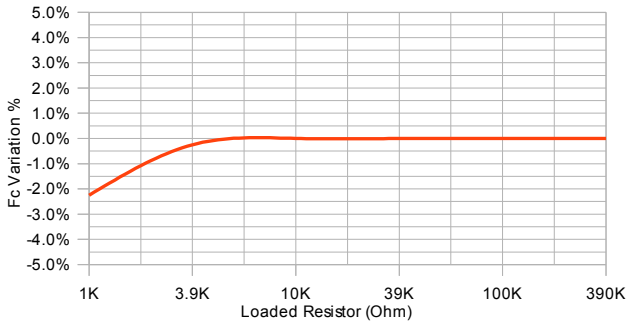
400ER180 Receiver

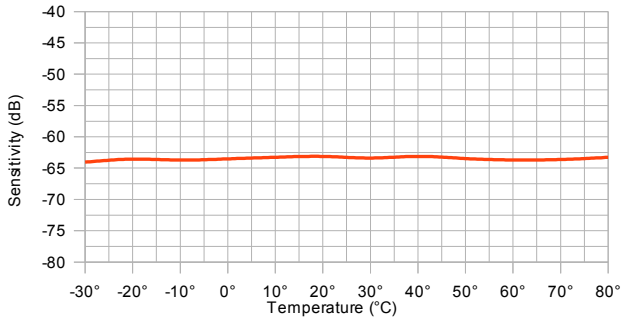
Sensitivity Variation vs. Loaded Resistor



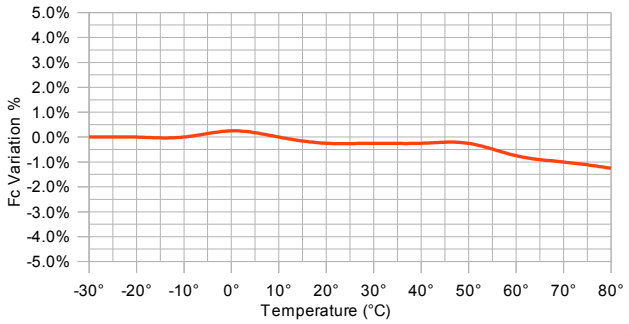
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

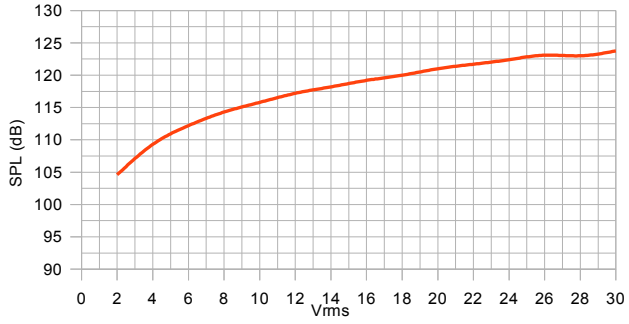


Center Frequency Shift vs. Temperature

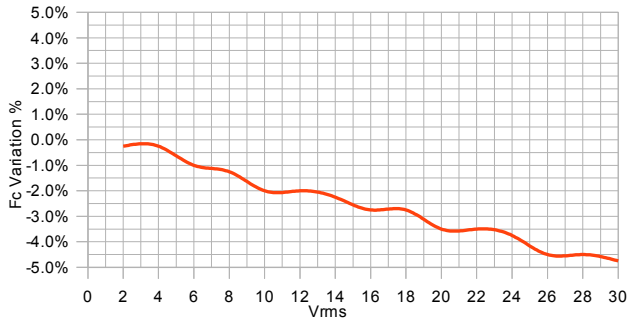


400ET180 Transmitter

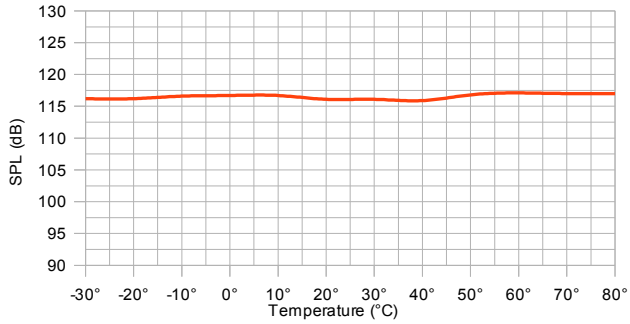
SPL Variation vs. Driving Voltage



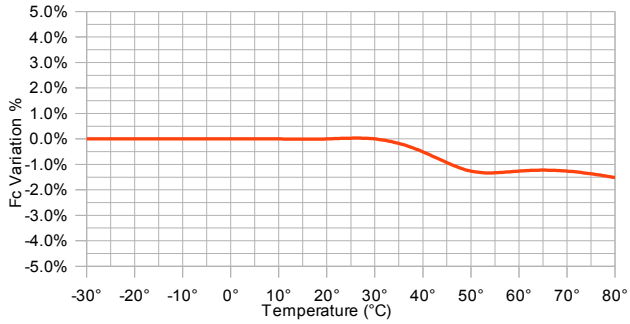
Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



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