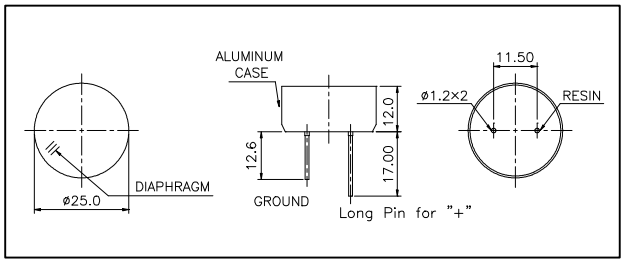
Air Ultrasonic Ceramic Transducers 400ET/R250

Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

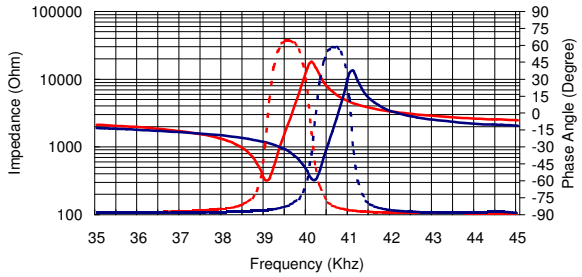
Tested under 1Vrms Oscillation Level

400ER250 Impedance

400ER250 Phase

400ET250 Impedance

400ET250 Phase

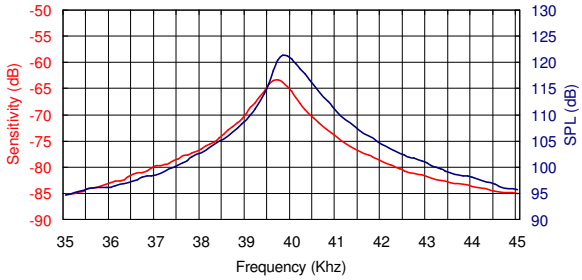


Specification

400ET250		Transmitter
400ER250		Receiver
Center Frequency		40.0±1.0Khz
Bandwidth (-6dB)	400ET250	1.0Khz
	400ER250	1.0Khz
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		-70dB min.
Capacitance at 1Khz	±20%	2400 pF
Max. Driving Voltage (cont.)		20Vrms
Total Beam Angle	-6dB	30° typical
Operation Temperature		-30 to 80°C
Storage Temperature		-40 to 85°C

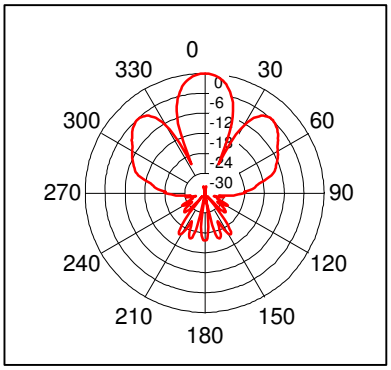
Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



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

Beam Angle: Tested at 40.0Khz frequency

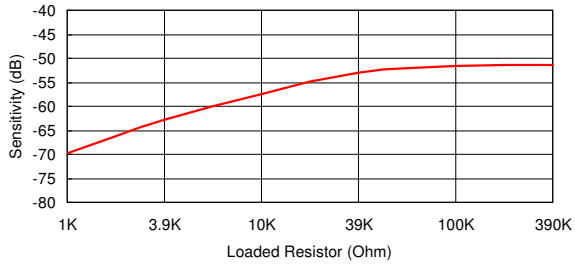


Model available:

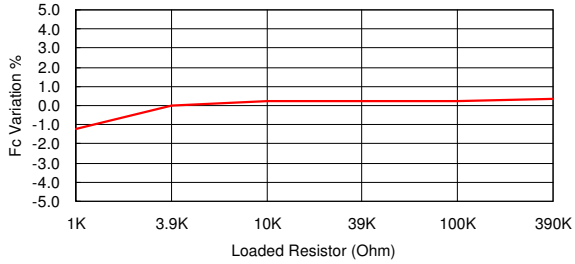
1	400ET/R250	Aluminum Housing
2	400ET/R25B	Black Alum. Housing

400ER250 Receiver

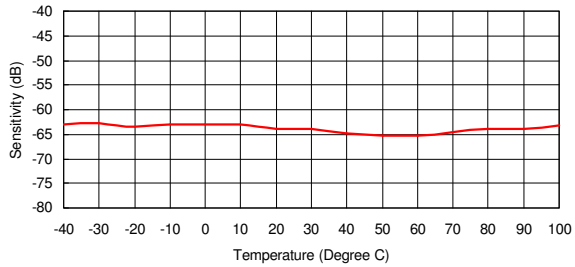
Sensitivity Variation vs. Loaded Resistor



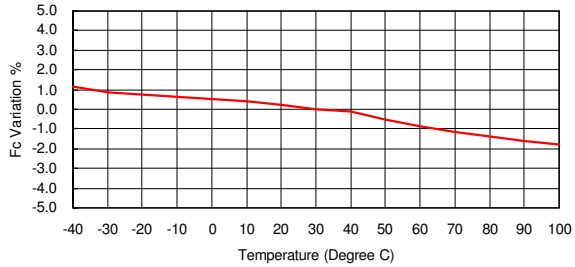
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

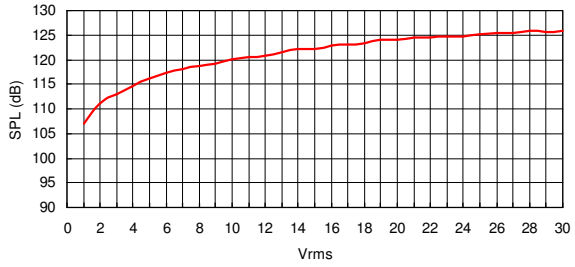


Center Frequency Shift vs. Temperature

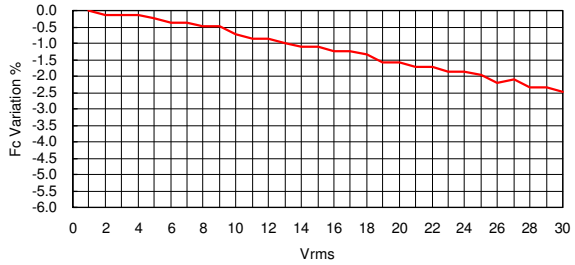


400ET250 Transmitter

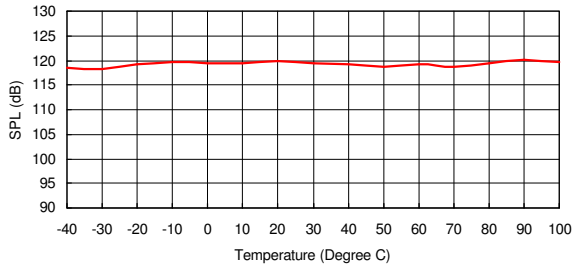
SPL Variation vs. Driving Voltage



Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature