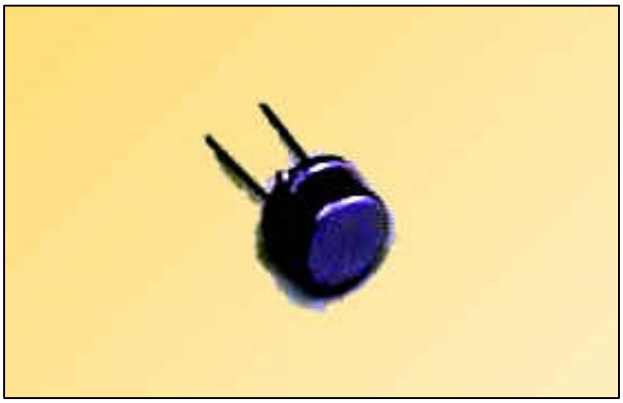
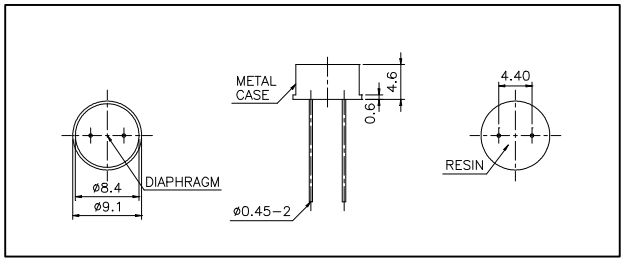
Air Ultrasonic Ceramic Transducers 400ET/R080



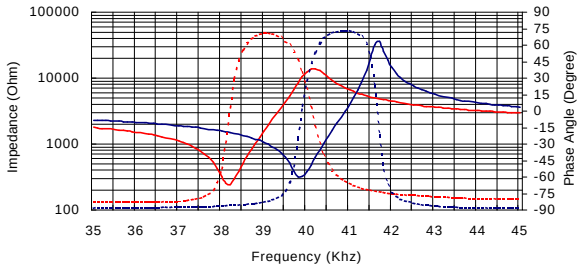
Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

400ER080 Impedance
400ER080 Phase
400ET080 Impedance
400ET080 Phase



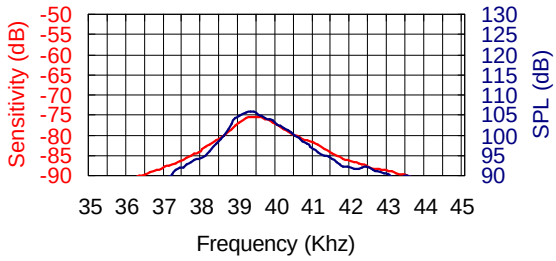
Specification

400ET080		Transmitter
400ER080		Receiver
Center Frequency		40.0±3.0Khz
Bandwidth (-6dB)	400ET080	1.5Khz
	400ER080	2.0Khz
Transmitting Sound Pressure Level at 40.0Khz; 0dB re 0.0002µbar per 10Vrms at 30cm		100dB min.
Receiving Sensitivity at 40.0Khz 0dB = 1 volt/µbar		-80dB min.
Capacitance at 1Khz	±20%	1700 pF
Max. Driving Voltage (cont.)		15Vrms
Total Beam Angle	-6dB	125° typical
Operation Temperature		-30 to 80°C
Storage Temperature		-40 to 85°C

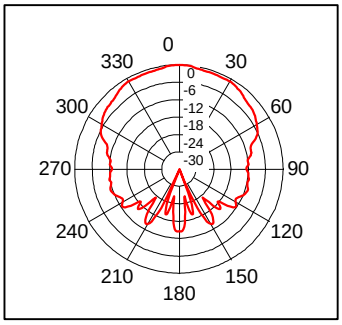
All specification taken typical at 25°C
Closer frequency tolerance can be supplied upon request.

Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



Beam Angle: Tested at 40.0Khz frequency



Model available:

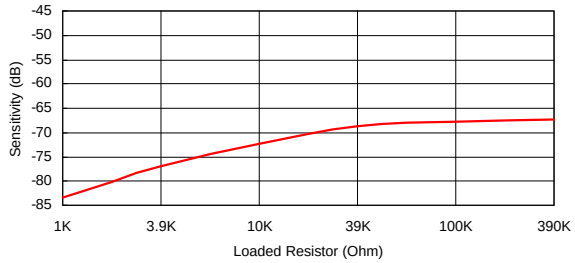
1	400ET/R080	Plated Metal Housing

Air Ultrasonic Ceramic Transducers 400ET/R080

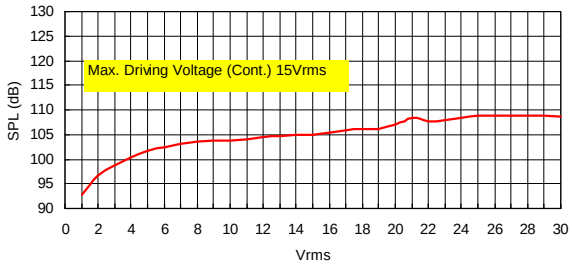
400ER080 Receiver

400ET080 Transmitter

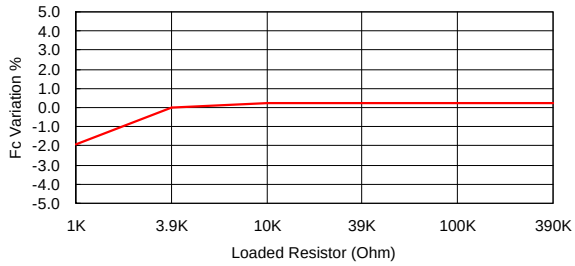
Sensitivity Variation vs. Loaded Resistor



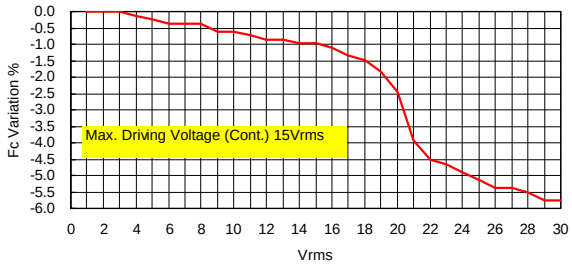
SPL Variation vs. Driving Voltage



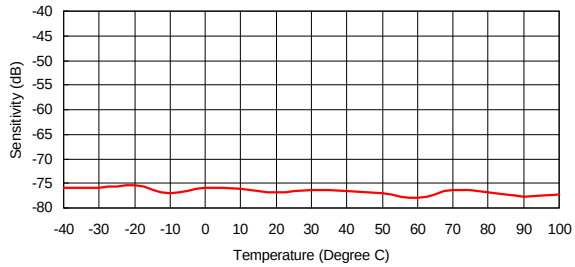
Center Frequency Shift vs. Loaded Resistor



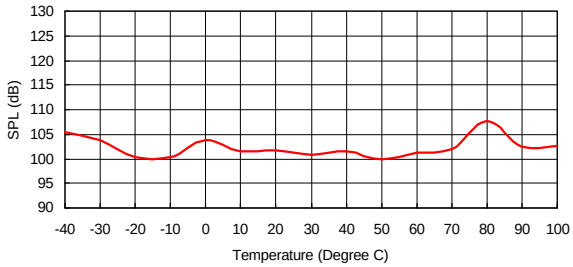
Center Frequency Shift vs. Driving Voltage



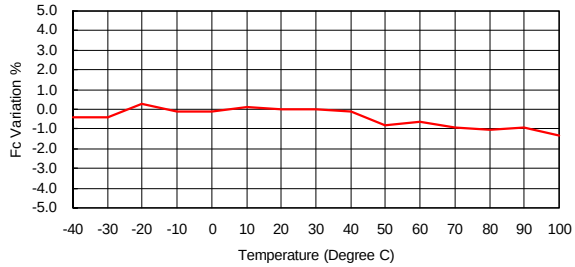
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature