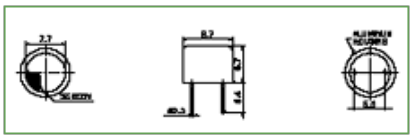
ULTRA-SOM

Model Number 400ST/R100, 400SR100 Receiver, 400ST100 Transmitter



Dimensions: Dimensions are in mm

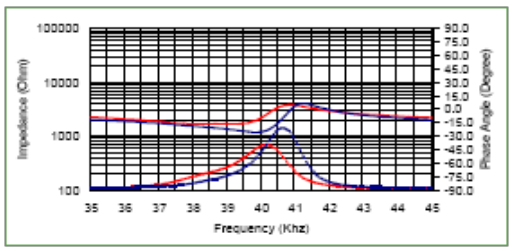
Specification

400 T100		Transmitter
400SR100		Receiver
CenterFrequency		40.0+/-1.0Khz
Bandwidth (-6dB) 400ST100		2.5Khz
Bandwidth (-6dB) 400SR100		3.0Khz
Transmitting Sound Pressure Level		112db min.
At 40.0Khz; 0dB re 0.0002µbar Per 10Vrms at 30cm		
Receiving Sensivity		-70db min.
At 40.0Khz 0dB = 1 volt/µbar		
Capacitance at 1Khz ±20%		1900pF
Max. Driving Voltage (cont.)		10Vrms
Total Beam Angle -6dB		72º typical
Operation Temperature		-40 to 85º
Storage Temperature		-40 to 85º
All specification taken typical at 25º. Closer frequency tolerance can be suplied Upon request.		

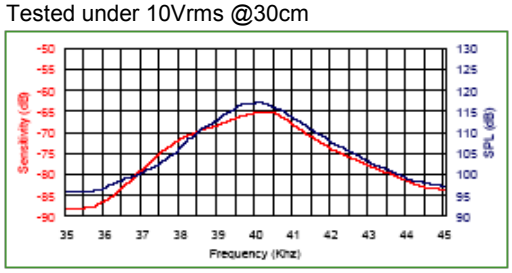
Impedance/Phase Angle vs. Frequency		**Model available:**
Tested under 1 Vrms Oscilation Level	**1**	400ST/R100 - Aluminum Housing
400SR 100 Impedance_____	**2**	400ST/R10B - Black Al. Housing
400SR 100 Phase----------	**3**	400ST/R10P - Plastic Housing

400ST 100 Impedance_____

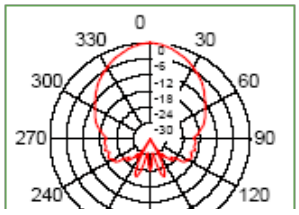
400ST 100 Phase----------

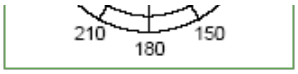


Tested under 10Vrms @30cm



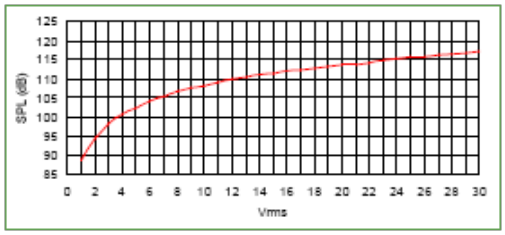
Beam Angle: Tested at 40.0Khz frequency



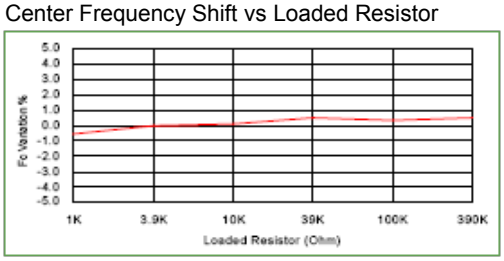


Sensitivy Variation vs Loaded Resistor

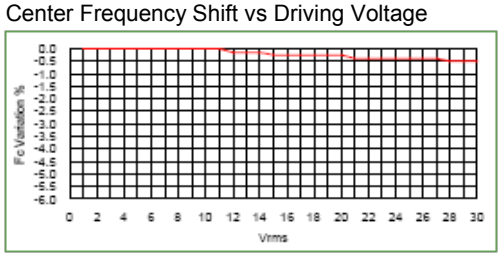
SPL Variation vs Driving Voltage



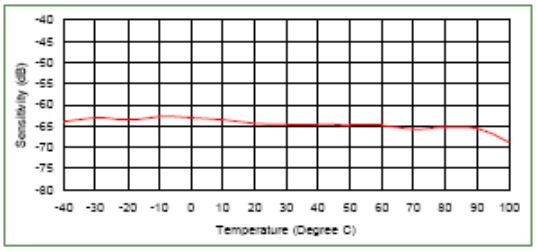
Center Frequency Shift vs Loaded Resistor



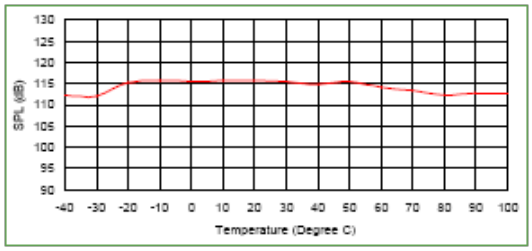
Center Frequency Shift vs Driving Voltage



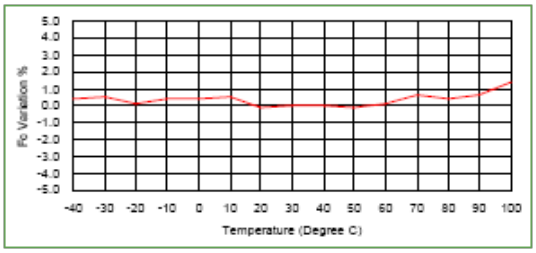
Sensitivy Variation vs Temperature



SPL Variation vs Temperature



Center Frequency Shift vs Temperature



Center Frequency Shift vs Temperature