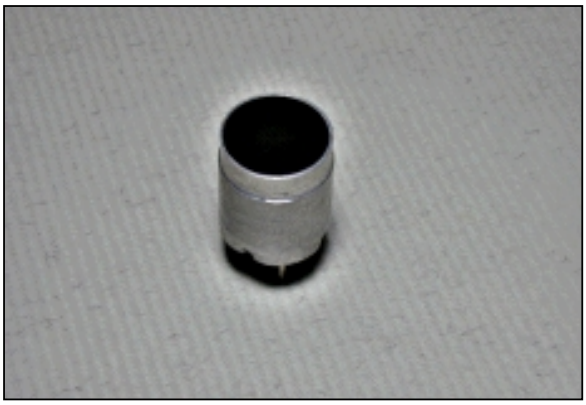
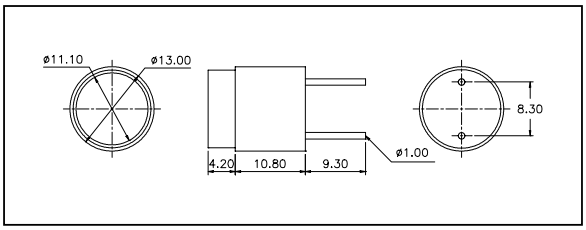
Air Ultrasonic Ceramic Transducers 235AC130



Dimensions: dimensions are in mm



Specification

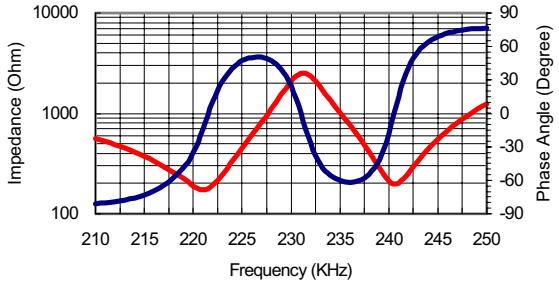
235AC130	Transceiver
Center Frequency	235.0±10Khz
Transmitting Sensitivity 0dB re 1µbar/1Vrms @ 30cm	15 dB
Receiving Sensitivity 0dB = 1Vrms/µbar	-73 dB
Figure of Merit (TS + RS)	-55 dB
Bandwidth (FOM)	10KHz
Nominal Impedance (Ohm)	1000
Capacitance at 1Khz ±20%	530 pF
Max. Driving Voltage (Pulse)	50Vpp 10% duty cycle
Total Beam Angle -6dB	15° typical
Matching Window	Silicone Rubber
Operation Temperature	-20 to 60°C
Storage Temperature	-30 to 70°C

All specification taken typical at 25°C
Closer frequency tolerance, shorter ringing and wider bandwidth models can be supplied upon request.
Model available:

1	235AC130	Aluminum Housing

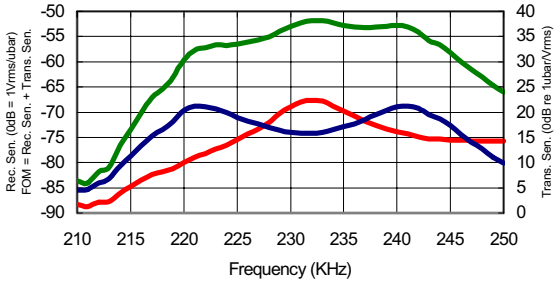
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



Receiving/Transmitting Sensitivity & Figure of Merit (RS + TS)

Tested under 10Vrms @30cm



Beam Angle: Tested at 235.0Khz frequency