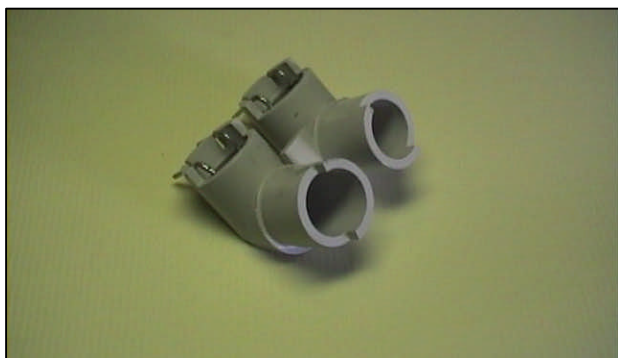
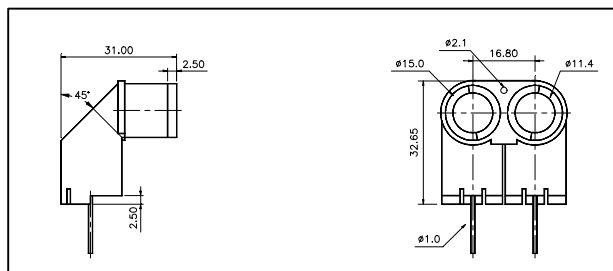


Air Ultrasonic Ceramic Transducers

500MB120



Dimensions: dimensions are in mm



Impedance/Phase Angle vs. Frequency

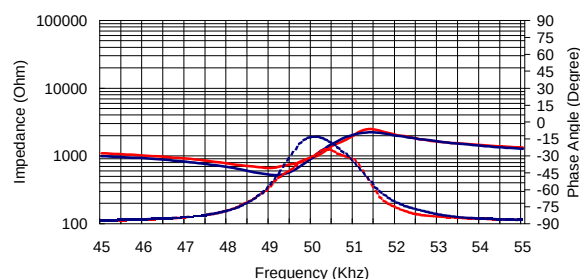
Tested under 1Vrms Oscillation Level

Transmitter Impedance —————

Transmitter Phase (red dotted line)

Receiver Impedance —————

Receiver Phase (blue dotted line)



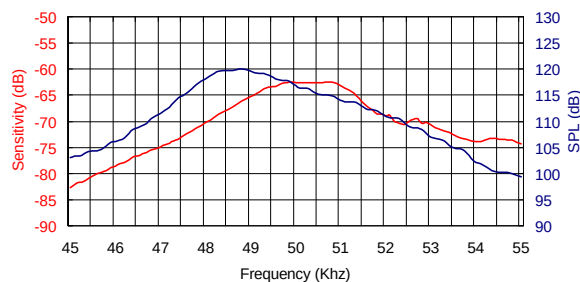
Specification

500MB120	Dual Transducer
Center Frequency	50.0±1.0Khz
Bandwidth (-6dB)	3Khz
Transmitting Sound Pressure Level at 50.0Khz; 0dB re 0.0002μbar per 10Vrms at 30cm	113dB min.
Receiving Sensitivity at 50.0Khz 0dB = 1 volt/μbar	-67dB min.
Sensitivity/Cross Talk Ratio	15 dB
Nominal Impedance (Trans.)	1000 Ohm
Capacitance at 1Khz ±20%	2400 pF
Max. Driving Voltage (cont.)	20Vrms
Total Beam Angle -6dB	30°
Operation Temperature	-20 to 70°C
Storage Temperature	-40 to 80°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 50.0Khz frequency

