Air Ultrasonic Ceramic Transducers

Specification

400ST160 Transmitter
400SR160 Receiver
Center Frequency 40.0±1.0KHz
Bandwidth (-6dB) 400ST160 2.0KHz
2.5KHz
Transmitting Sound Pressure Level
400SR160 at 40.0KHz; 0dB re 0.0002µbar per 10Vrms at 30cm
120dB min.
Receiving Sensitivity
400SR160 at 40.0KHz 0dB = 1 volt/µbar
-61dB min.
Capacitance at 1KHz ±20%
2400 pF
Max. Driving Voltage (cont.)
20Vrms
Total Beam Angle -6dB 55° typical
Operation Temperature -30 to 70°C
Storage Temperature -40 to 80°C

Impedance/Phase Angle vs. Frequency
Tested under 1Vrms Oscillation Level

Sensitivity/Sound Pressure Level
Tested under 10Vrms @30cm

Beam Angle
Tested at 40.0KHz frequency

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

Models available:
1 400ST/R160 Aluminum Housing
2 400ST/R16B Black Al. Housing
3 400ST/R16P Plastic Housing

Dimensions: dimensions are in mm

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400SR160 Receiver
Sensitivity Variation vs. Loaded Resistor

400ST160 Transmitter
SPL Variation vs. Driving Voltage

Center Frequency Shift vs. Loaded Resistor

Sensitivity Variation vs. Temperature

Center Frequency Shift vs. Driving Voltage

SPL Variation vs. Driving Voltage

Center Frequency Shift vs. Temperature

Sensitivity Variation vs. Temperature

Center Frequency Shift vs. Temperature

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