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Piezo Transducer 40KR08 / 40KT08

SensComp's 'K' Series Closed Face Piezo Transducers – 40KR08 and 40KT08

Features

- Closed Face Construction
- Environmentally Rugged
- Durable, Sealed Construction Protects Against Water, Heat, Humidity and Other Elements
- Specifically Intended for Operation in Air at Ultrasonic Frequencies

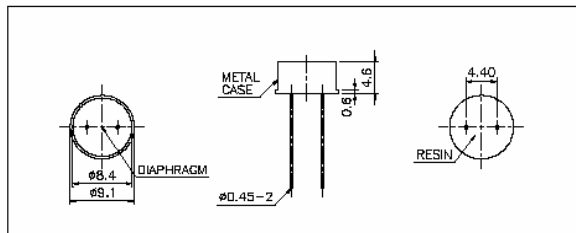
Part No.

- PID# 618899 – 40KT08 Transmitter
- PID# 618900 – 40KR08 Receiver

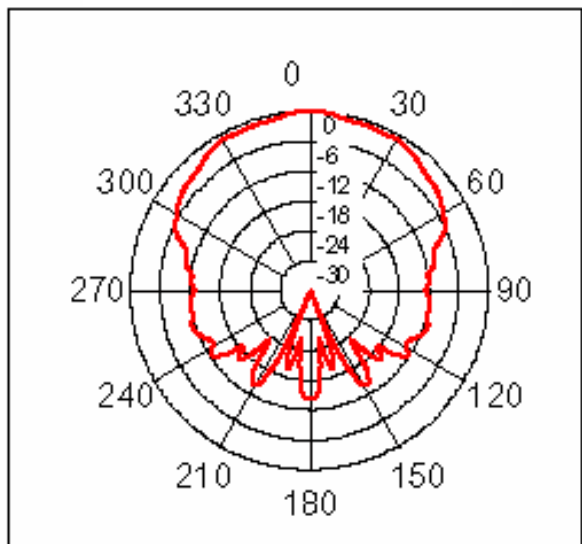
Specifications

- 40KT08** Transmitter
- 40KR08** Receiver
- Center Frequency** 40.0 ± 3.0 kHz
- Bandwidth (-6 dB)** 40KT08 1.5 kHz
- 40KR08 2.0 kHz
- Transmitting Sound Pressure Level** 100 dB min
 at 40.0 kHz; 0dB re 0.0002 µbar
 Per 10 Vrms at 30 cm
- Receiving Sensitivity** -80 dB min
 at 40.0 kHz; 0dB = 1 volt/ µbar
- Capacitance at 1 kHz ± 20%** 1700 pf
- Maximum Driving Voltage (cont.)** 15 Vrms
- Total Beam Angle (-6 dB)** 125° typical
- Operating Temperature** -30° to 80° C
- Storage Temperature** -40° to 85° C
- All Specifications taken typical at 25° C
- Dimensions:** dimensions are in mm

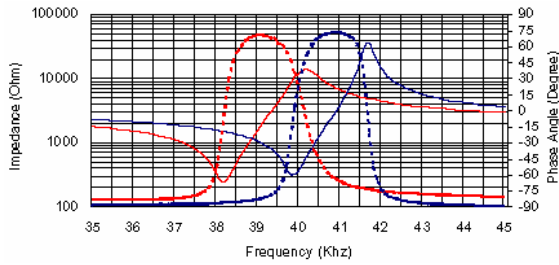
Specifications



Beam Angle: Tested at 40.0 kHz

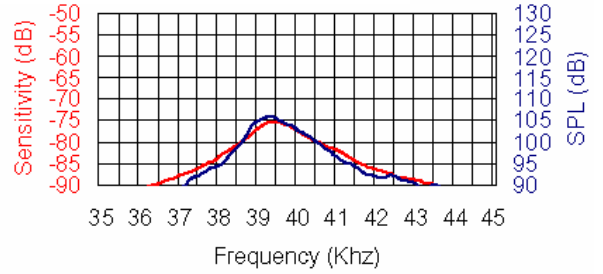


40KR08 Impedance
 40KR08 Phase
 40KT08 Impedance
 40KT08 Phase



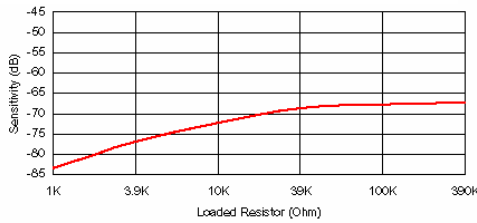
Sensitivity/Sound Pressure Level

Tested under 10 Vrms @ 30 cm



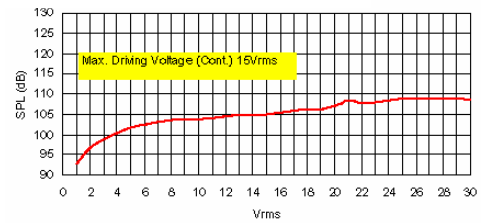
40KR08 Receiver

Sensitivity Variation vs. Loaded Resistor

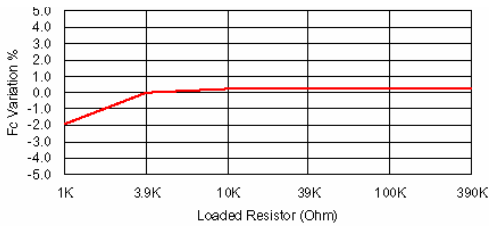


40KT08 Transmitter

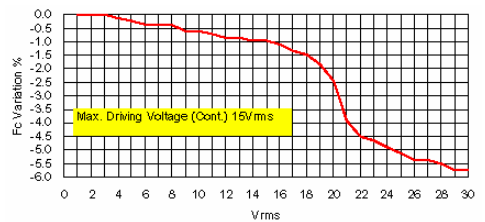
SPL Variation vs. Driving Voltage



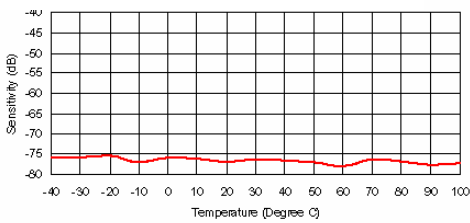
Center Frequency Shift vs. Loaded Resistor



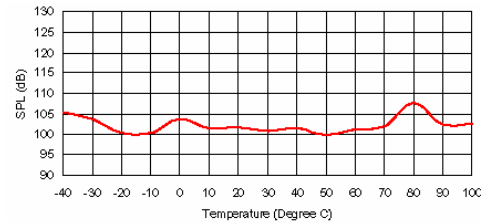
Center Frequency Shift vs. Driving Voltage



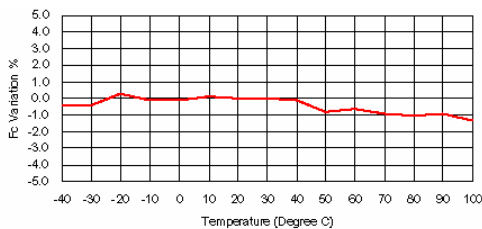
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature

