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Piezo Transducer 40KR25 / 40KT25

SensComp's 'K' Series Closed Face Piezo Transducers – 40KR25 and 40KT25

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

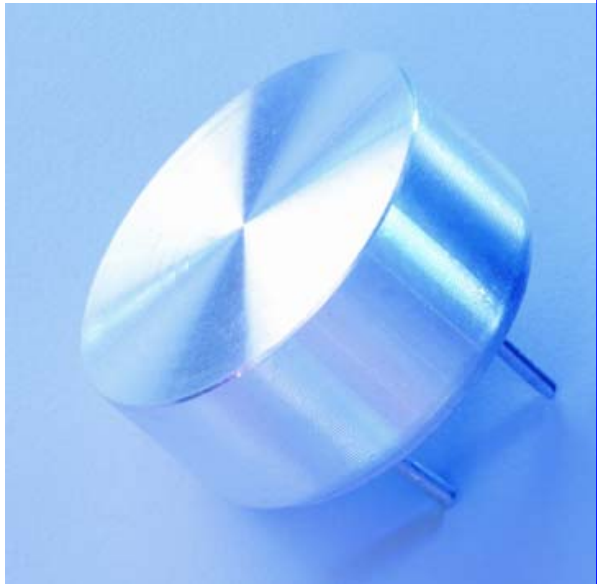
Part No.

- PID# 618903 – 40KT25 Transmitter
- PID# 618904 – 40KR25 Receiver

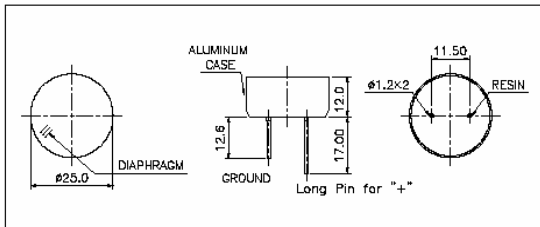
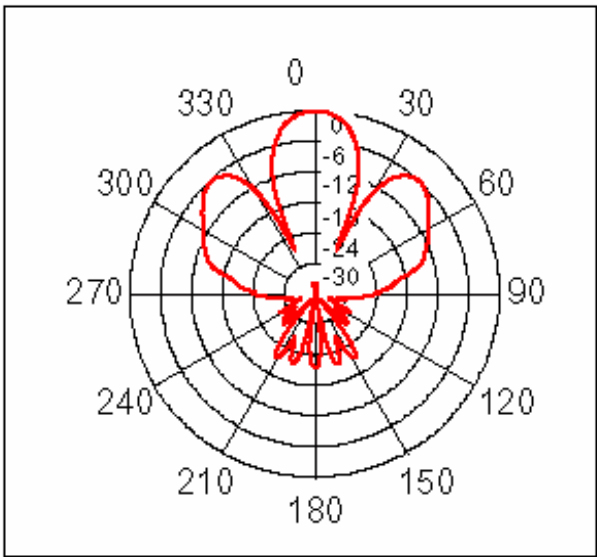
Specifications

- 40KT25** Transmitter
- 40KR25** Receiver
- Center Frequency** 40.0 ± 1.0 kHz
- Bandwidth (-6 dB)** 40KT25 1.0 kHz
- 40KR25 1.0 kHz
- Transmitting Sound Pressure Level** 115 dB min
 at 40.0 kHz; 0dB re 0.0002 µbar
 Per 10 Vrms at 30 cm
- Receiving Sensitivity** -70 dB min
 at 40.0 kHz; 0dB = 1 volt/ µbar
- Capacitance at 1 kHz ± 20%** 2400 pf
- Maximum Driving Voltage (cont.)** 20 Vrms
- Total Beam Angle (-6 dB)** 30° 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

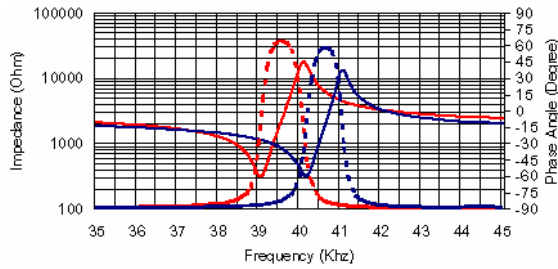


Beam Angle: Tested at 40.0 kHz

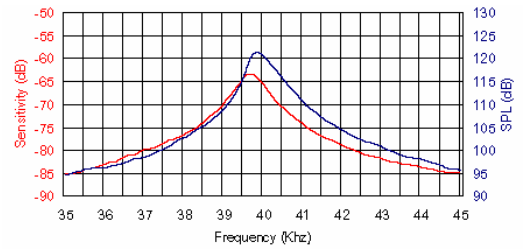


40KR25 Impedance ————
 40KR25 Phase ————
 40KT25 Impedance - - - - -
 40KT25 Phase - - - - -

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

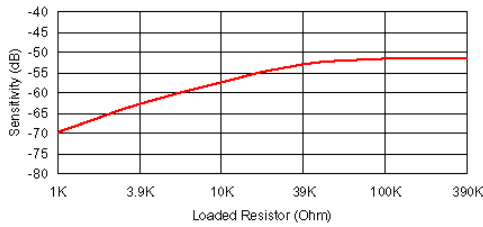


Sensitivity/Sound Pressure Level
 Tested under 10 Vrms @ 30 cm

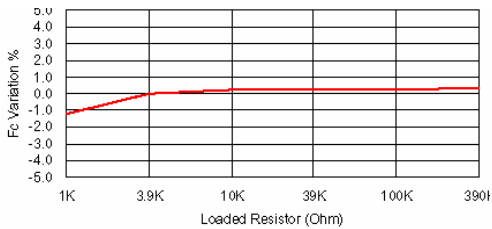


40KR25 Receiver

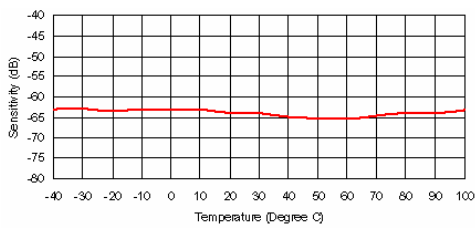
Sensitivity Variation vs. Loaded Resistor



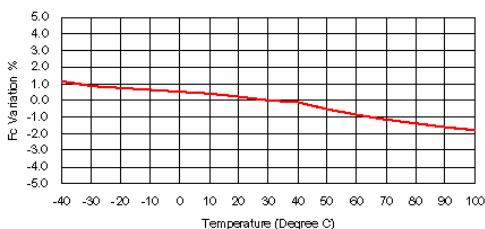
Center Frequency Shift vs. Loaded Resistor



Sensitivity Variation vs. Temperature

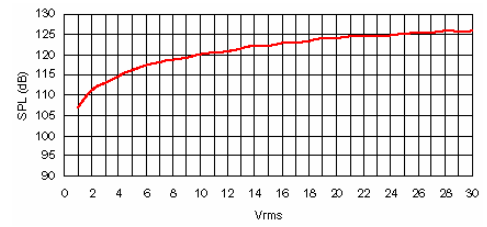


Center Frequency Shift vs. Temperature

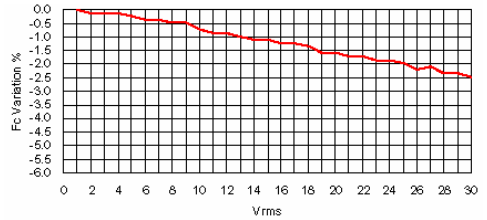


40KT25 Transmitter

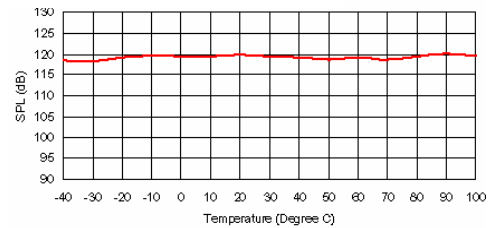
SPL Variation vs. Driving Voltage



Center Frequency Shift vs. Driving Voltage



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature

