

K Series 40KPT25

SensComp's 'K' Series Closed Face Piezoelectric Ultrasonic Sensors – 40KPT25 Transceiver

Features

Closed Face Construction
Environmentally Rugged Aluminum Housing
Durable, Sealed Construction Protects Against Water, Heat, Humidity and Other Elements
Internal Mechanical Techniques for Improved Temporal Ring Control
Specifically Intended for Operation in Air at Ultrasonic Frequencies

Part No.

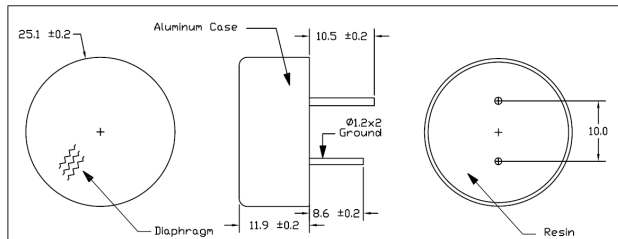
*PID# 618905LF – K Series 40KPT25

*RoHS compliant

Specifications

40KPT25..... Transceiver
Center Frequency..... 40.0 ± 1.0 kHz
Bandwidth (-6 dB)..... 2.0 kHz
Transmitting Sound Pressure Level..... 110 dB min
at resonant frequency; 0dB re
0.0002 μ bar per 10 Vrms at 30 cm
Receiving Sensitivity -72 dB min
at resonant frequency;
0dB = 1 volt/ μ bar
Capacitance at 1 kHz \pm 20%..... 2100 pF
Maximum Driving Voltage (cont.)..... 100 Vp-p
Total Beam Angle (-6 dB)..... 23°
Operating Temperature -30° to 70° C
Storage Temperature -40° to 80° C
all Specifications taken typical at 25° C

Dimensions: dimensions are in mm

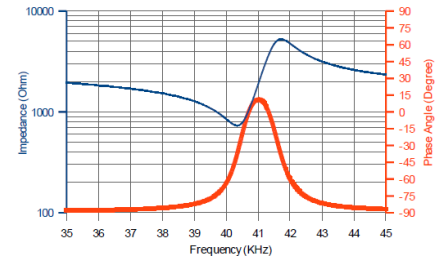


Specifications



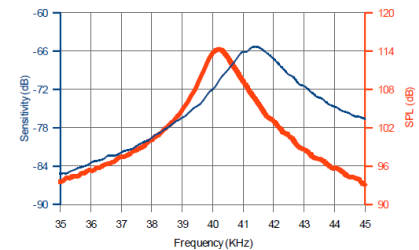
Impedance/Phase Angle vs. Frequency:

Tested under 1Vrms Oscillation Level

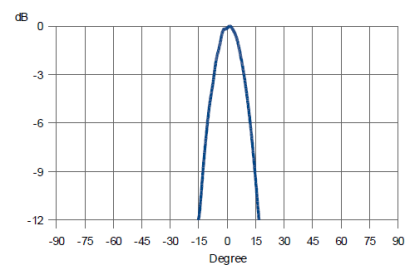


Sensitivity/Sound Pressure Level:

Tested under 10Vrms @30cm



Beam Angle: Tested at 40.0Khz frequency



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