

K Series 40KPT18A

SensComp's 'K' Series Closed Face Piezoelectric Ultrasonic sensors – 40KPT18A 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

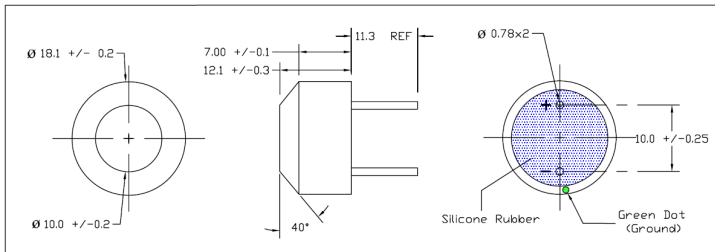
Part No.

*PID# 625600LF – K Series 40KPT18A
*RoHS Compliant

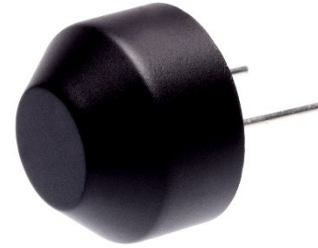
Specifications

- 40KPT18A** Transceiver
- Center Frequency**..... 40.0 ± 1.0 kHz
- Bandwidth (-6 dB)** 2.0 kHz
- Transmitting Sound Pressure Level**..... 108 dB min
at resonant frequency; 0dB re
0.0002 µbar per 10 Vrms at 30 cm
- Receiving Sensitivity** -75 dB min
at resonant frequency;
0dB = 1 volt/ µbar
- Nominal Impedance (ohm)**..... 750
- Ringing (mS)**..... 1.2 max.
- Capacitance at 1 kHz ± 20%**..... 2600 pF
- Maximum Driving Voltage (cont.)**..... 20 Vrms
- Total Beam Angle (-6 dB)**..... 85° 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

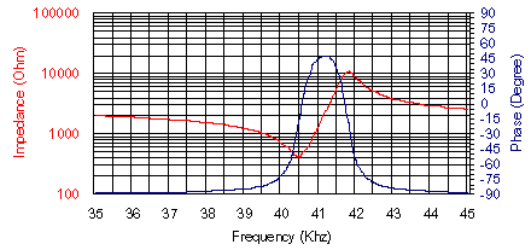


Specifications



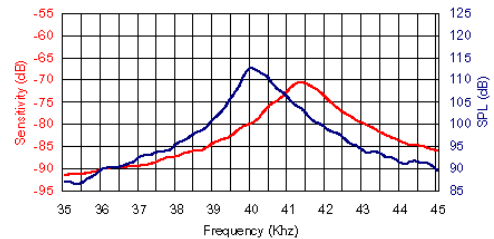
Impedance/Phase Angle vs. Frequency

Tested under 1 Vrms Oscillation Level



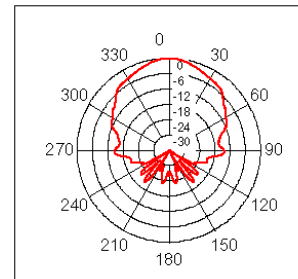
Sensitivity/Sound Pressure Level

Tested under 10 Vrms @ 30 cm



Beam Angle:

Tested at 40.0 kHz



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