

SensComp, Inc. 36704 Commerce Rd. Livonia, MI 48150 USA Telephone: (734) 953-4783 Fax: (734) 953-4518 www.senscomp.com

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

Specifically Intended for Operation in Air at Ultrasonic Frequencies

Part No.

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

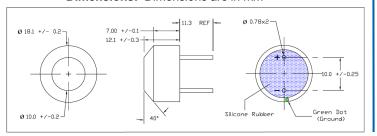
Specifications

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

Dimensions: Dimensions are in mm



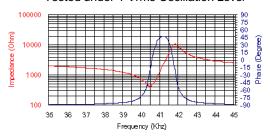
all Specifications taken typical at 25° C

Specifications



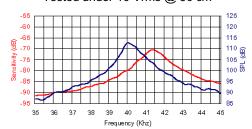
Impedance/Phase Angle vs. Frequency

Tested under 1 Vrms Oscillation Level

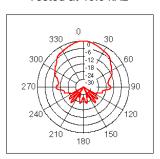


Sensitivity/Sound Pressure Level

Tested under 10 Vrms @ 30 cm



Beam Angle: Tested at 40.0 kHz



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