

# 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

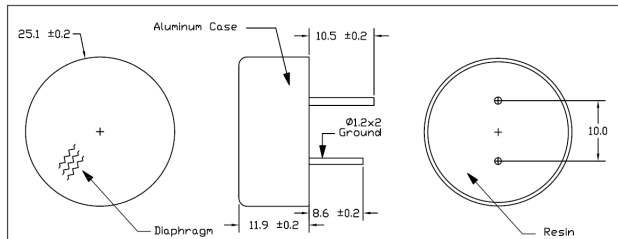
## Part No.

\*PID# 618905LF – K Series 40KPT25  
\*RoHS compliant

## Specifications

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

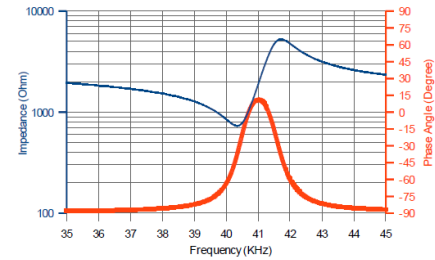
**Dimensions:** dimensions are in mm



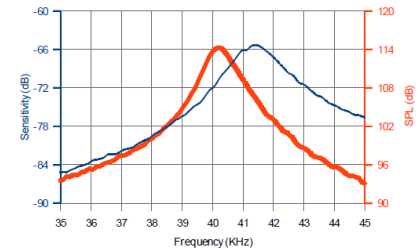
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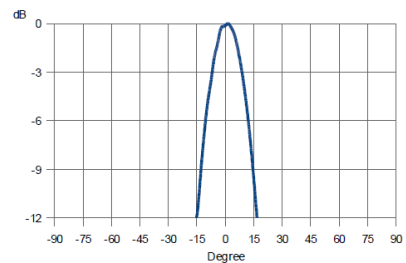
**Impedance/Phase Angle vs. Frequency:**  
Tested under 1Vrms Oscillation Level



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



**Beam Angle:** Tested at 40.0KHz frequency



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