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# Piezo Transducer 40KPT18A

SensComp's 'K' Series Closed Face Piezo Transducers – 40KPT18A Transceiver

## Features

- Closed Face Construction
- Environmentally Rugged
- 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.

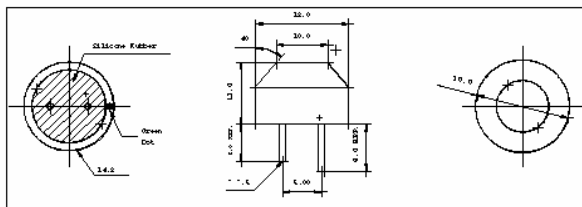
PID# 625600 – 40KPT18A Transceiver

## Specifications

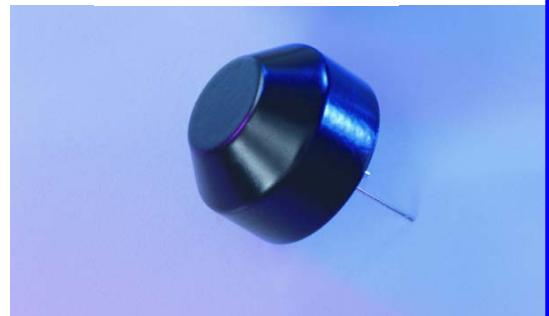
<b>40KPT18A</b> .....	Transceiver
<b>Center Frequency</b> .....	40.0 ± 1.0 kHz
<b>Bandwidth (-6 dB)</b> .....	1.5 kHz
<b>Transmitting Sound Pressure Level</b> .....	108 dB min
at resonant frequency; 0dB re	
0.0002 µbar per 10 Vrms at 30 cm	
<b>Receiving Sensitivity</b> .....	-75 dB min
at resonant frequency;	
0dB = 1 volt/ µbar	
<b>Nominal Impedance (ohm)</b> .....	500
<b>Ringng (ms)</b> .....	1.2 max.
<b>Capacitance at 1 kHz ± 20%</b> .....	1900 pf
<b>Maximum Driving Voltage (cont.)</b> .....	20 Vrms
<b>Total Beam Angle (-6 dB)</b> .....	85° typical
<b>Operating Temperature</b> .....	-20° to 70° C
<b>Storage Temperature</b> .....	-40° to 80° C

All Specifications taken typical at 25° C

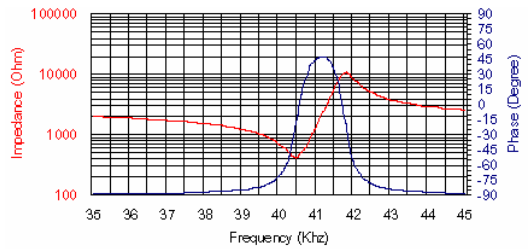
**Dimensions:** dimensions are in mm



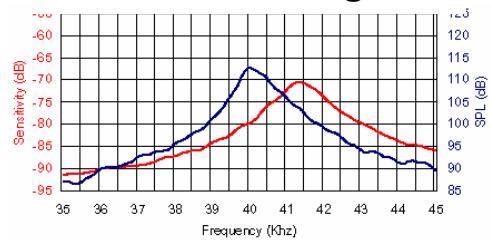
## Specifications



**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

