

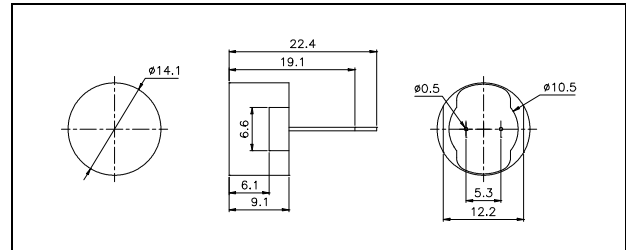
### PROWAVE

### Air Ultrasonic Ceramic Transducers

### 400EP14D



**Dimensions:** dimensions are in mm



### Asymmetric Beam Patterns

### Specification

<b>400EP14D</b>	Transceiver
<b>Center Frequency</b>	40.0±1.0Khz
<b>Bandwidth (-6dB)</b>	1.5Khz
<b>Transmitting Sound Pressure Level</b>	103dB min.
at resonant frequency; 0dB re 0.0002μbar per 10Vrms at 30cm	
<b>Receiving Sensitivity</b>	-78dB min.
at resonant frequency 0dB = 1 volt/μbar	
<b>Nominal Impedance (Ohm)</b>	1000
<b>Ringing (ms)</b>	1.2 max.
<b>Capacitance at 1KHz ±20%</b>	1250 pF
<b>Max. Driving Voltage (cont.)</b>	20Vrms
2% Duty (Bursts)	100Vpp
<b>Total Beam Angle</b> <span style="color: red;">Wide</span>	125° typ.
<b>-6dB</b> <span style="color: blue;">Narrow</span>	65° typ.
<b>Operation Temperature</b>	-30 to 80°C
<b>Storage Temperature</b>	-40 to 85°C

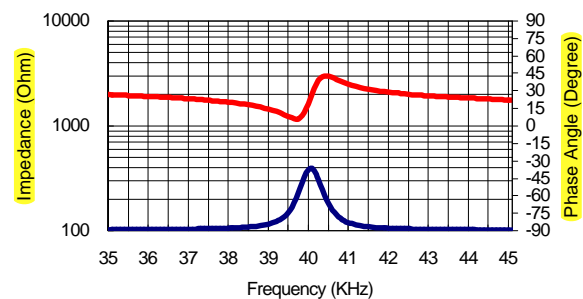
All specification taken typical at 25°C  
Both lead pins and lead wires output are available

Models available:

1	400EP14D	Black Al. Housing
2	400EP14D0	Natural Al. Housing

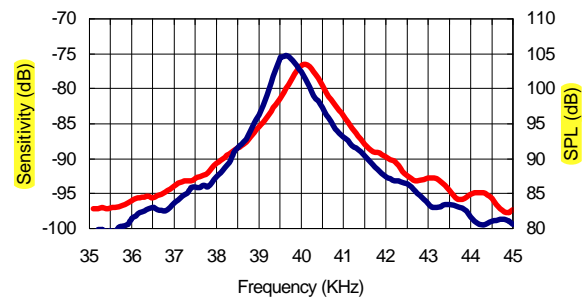
### Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



### Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



### Beam Angle: Tested at 40.0Khz frequency

Wide Angle \_\_\_\_\_ Narrow Angle \_\_\_\_\_

