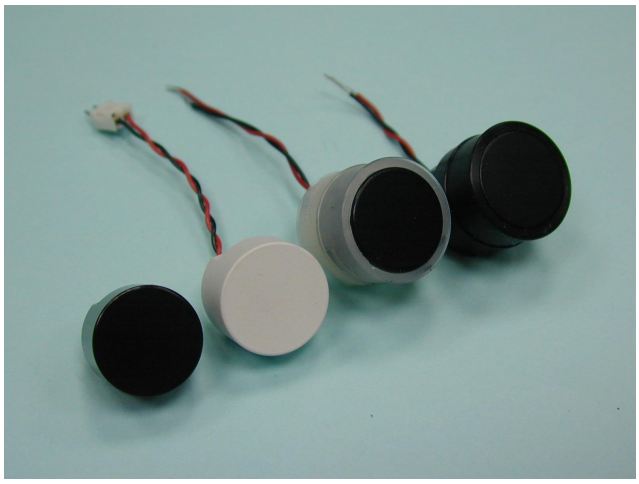
# Air Ultrasonic Ceramic Transducers 400EP14D



**Asymmetric Beam Patterns**

## Specification

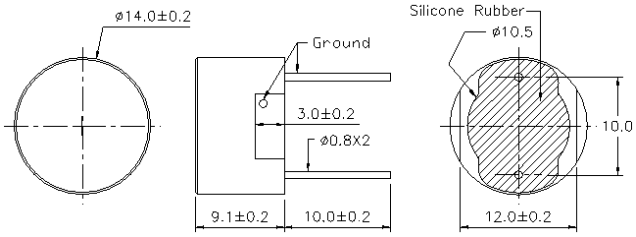
| | |
|---|---|
| 400EP14D | Transceiver |
| Center Frequency | 40.0±1.0KHz |
| Bandwidth (-6dB FOM) | 1.0KHz |
| Transmitting Sound Pressure Level<br>at resonant frequency;0dB re 0.0002µbar per 10Vrms at 30cm | 103dB min.<br>(Transducer alone) |
| Receiving Sensitivity<br>at resonant frequency 0dB = 1 volt/µbar | -78dB min.<br>(Transducer alone) |
| Nominal Impedance (Ohm) | 1000 |
| Ringing (ms) | 1.2 max. |
| Capacitance at 1KHz ±20% | 1600 pF |
| Temperature Compensated Type | 3200 pF |
| Max. Driving Voltage (cont.) | 20Vrms |
| 20 bursts, 25ms repetition rate | 100Vpp |
| Total Beam Angle -6dB Wide | 135° typ. |
| Total Beam Angle -6dB Narrow | 85° typ. |
| Operation Temperature | -30 to 70°C |
| Storage Temperature | -40 to 80°C |

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

Models available:

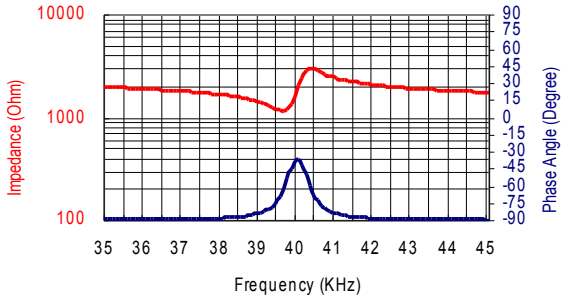
| | | |
|---|---|---|
| 1 | 400EP14D | Black Painted Housing |
| 2 | 400EP14DC | Temperature compensated (TC) |
| 3 | 400EP14DCR | T.C. + Rubber Sleeve |

**Dimensions:** dimensions are in mm



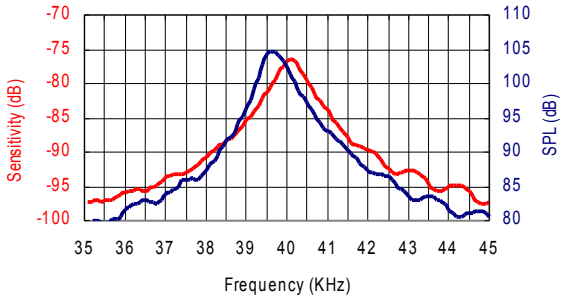

## Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



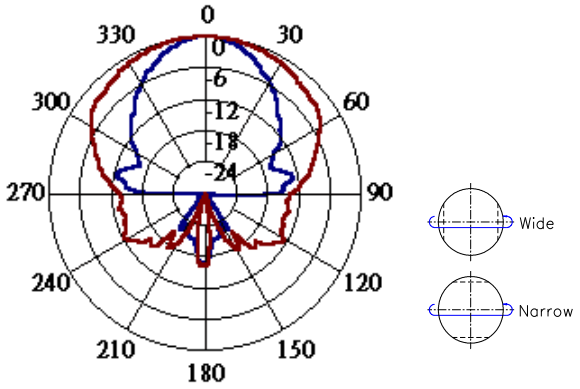

## Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm




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

Wide Angle _____ Narrow Angle _____




**S. Square Enterprise Company Limited**
**Pro-Wave Electronics Corporation**

Http://www.pro-wave.com.tw ; E-mail: sales@pro-wave.com.tw ; Tel: 886-2-22465101 ; Fax: 886-2-22465105