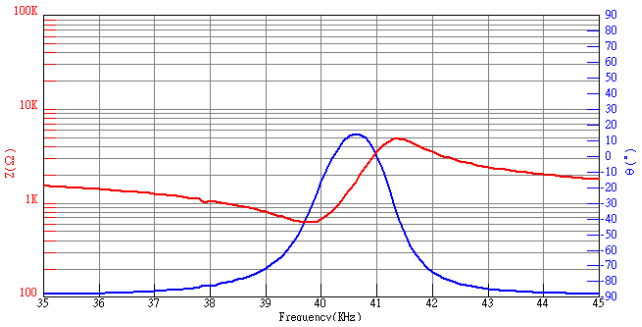
# Air Ultrasonic Ceramic Transducers 400PT120

## Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



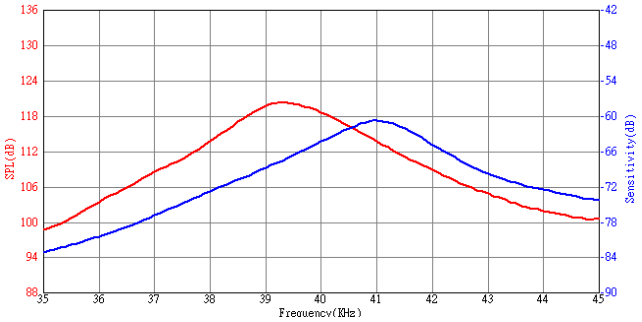

## Specification

| | | |
|---|---|---|
| 400PT120 | | Transceiver |
| Center Frequency | | 40.0±1.0KHz |
| Bandwidth (-6dB) | 400PT120 | 2.0KHz |
| Transmitting Sound Pressure Level<br>at resonant frequency ; 0dB re 0.0002μbar per 10Vrms at 30cm | | 115dB min. |
| Receiving Sensitivity<br>at resonant frequency ; 0dB = 1 volt/μbar | | -68dB min. |
| Nominal Impedance (Ω) | | 1000 |
| Ringing (ms) | | 1.2 max. |
| Capacitance at 1KHz ±20% | | 2400 pF |
| Max. Driving Voltage (cont.) | | 20Vrms |
| Total Beam Angle | 400PT120 | 85° typical |
| | 400PT12P | 120° typical |
| Operation Temperature | | -30 to 70°C |
| Storage Temperature | | -40 to 80°C |

All specification taken typical at 25°C
Closer frequency tolerance, shorter ringing and wider bandwidth models can be supplied upon request.

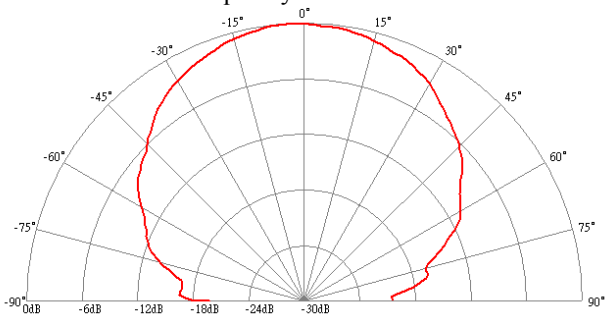
## Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm




## Beam Angle

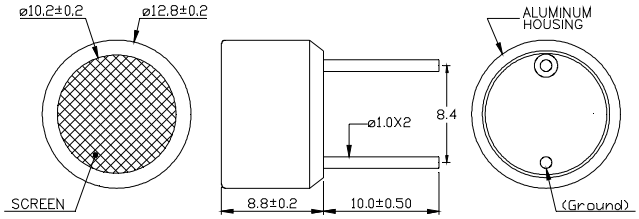
Tested at 40.0Khz frequency




## Model available:

| | | |
|---|---|---|
| 1 | 400PT120 | Aluminum Housing |
| 2 | 400PT12B | Black Al. Housing |
| 3 | 400PT12P | Plastic Housing |

## Dimensions: dimensions are in mm





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