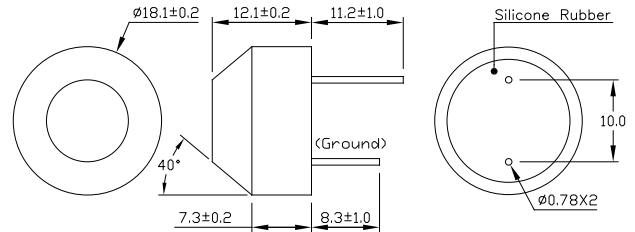


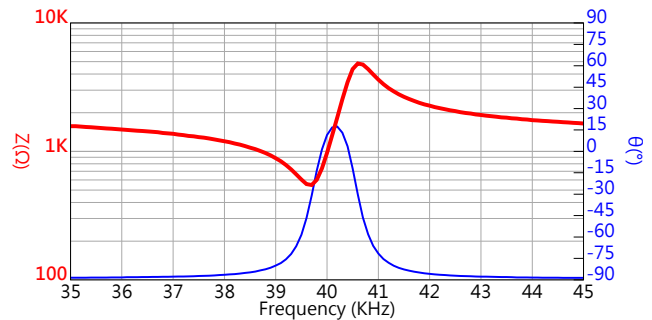


**Dimensions** dimensions are in mm



**Impedance/Phase Angle vs. Frequency**

Tested under 1Vrms Oscillation Level



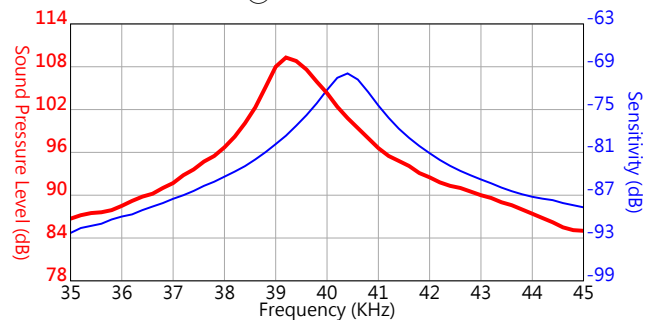
**Specification**

400EP18A	Transceiver
Center Frequency	40.0±1.0KHz
Bandwidth ( -6dB Figure Of Merit )	1.5KHz
Transmitting Sound Pressure Level at resonant frequency; 0dB re 0.0002μbar per 10Vrms at 30cm	108dB min.
Receiving Sensitivity at resonant frequency 0dB = 1 volt/μbar	-75dB min.
Nominal Impedance (Ohm)	750
Ringing	1.2 ms max.
Capacitance at 1KHz ±20%	2600 pF
Temperature Compensated Type	5200 pF
Max. Driving Voltage (Cont.)	20Vrms
20 bursts, 25ms repetition rate	100Vp-p
Total Beam Angle ( -6dB)	85° typical
Operation Temperature	-30°C to 70°C
Storage Temperature	-40°C to 80°C

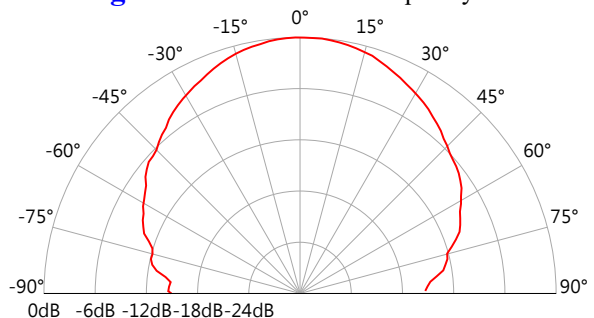
All specification taken typical at 25°C  
Both lead pins and lead wires output are available.  
Temperature compensated type is available upon request.

**Sound Pressure Level / Sensitivity**

Tested under 10Vrms @30cm



**Beam Angle** Tested at 40.0KHz Frequency



**Models available**

1	400EP18A	Aluminum Housing
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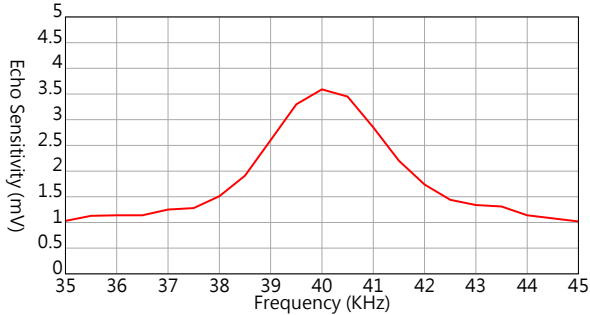


**S. Square Enterprise Company Limited**  
**Pro-Wave Electronics Corporation**

<http://www.pro-wave.com.tw> ; E-mail: [sales@pro-wave.com.tw](mailto:sales@pro-wave.com.tw) ; Tel: 886-2-22465101 ; Fax: 886-2-22465105

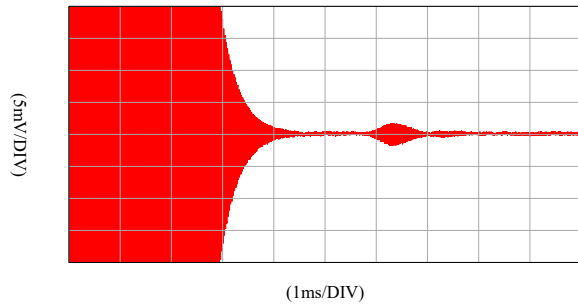
**Echo Sensitivity vs. Frequency**

Tested under 50Vp-p, 20 bursts, 100cm



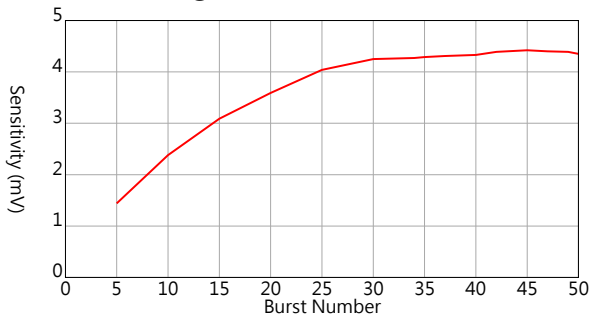
**Echo Sensitivity/Ringing**

Tested under 50Vp-p, 20 bursts, 100cm, 40KHz



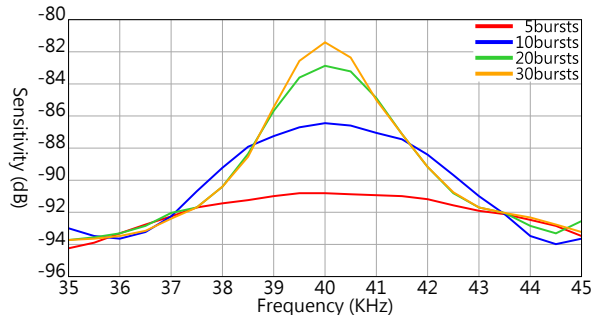
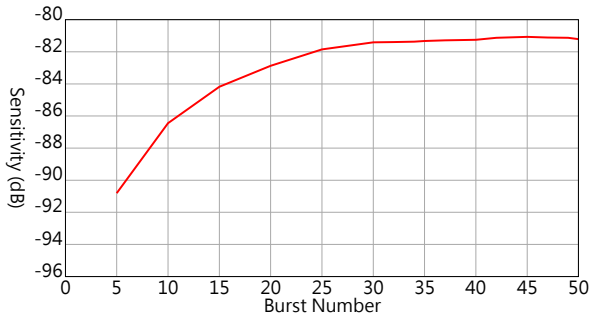
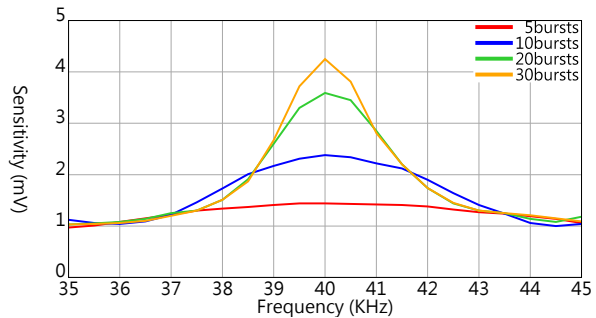
**Echo Sensitivity vs. Driving Burst Number**

Driving voltage 50Vp-p sine wave, Reflection target distance: 100cm @40KHz



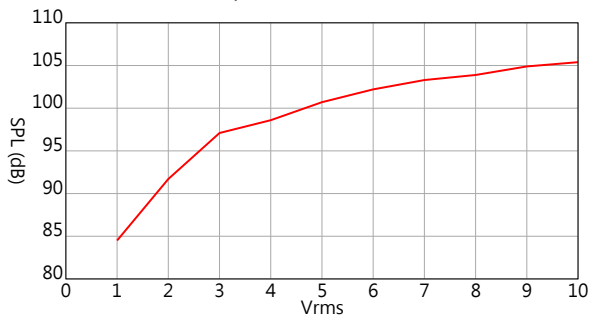
**Bandwidth vs. Driving Burst Number**

Driving voltage 50Vp-p sine wave, Reflection target distance: 100cm



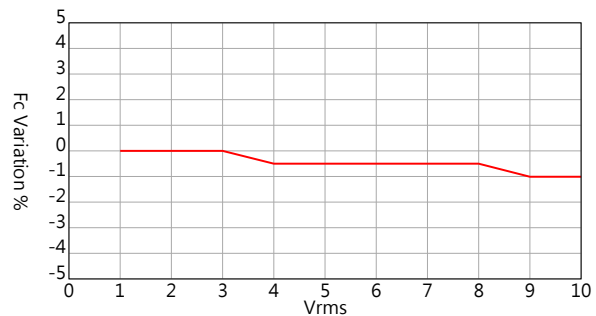
**SPL Variation vs. Driving Voltage**

Tested under 40KHz, 30cm



**Center Frequency Shift vs. Driving Voltage**

Tested under 30cm



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<http://www.pro-wave.com.tw> ; E-mail: [sales@pro-wave.com.tw](mailto:sales@pro-wave.com.tw) ; Tel: 886-2-22465101 ; Fax: 886-2-22465105