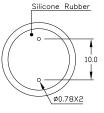


7.3±0.2 8.3±1.0

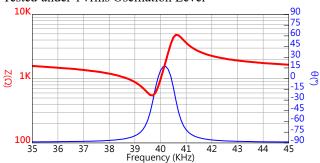
12.1±0.2



Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level

Dimensions dimensions are in mm Ø18.1±0.2

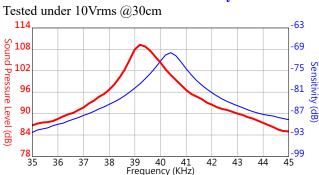


Specification

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

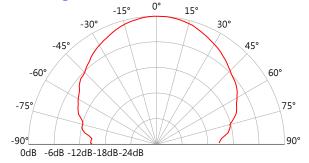
Sound Pressure Level / Sensitivity



Models available

400EP18A **Aluminum Housing**

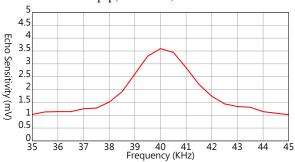
Beam Angle Tested at 40.0KHz Frequency





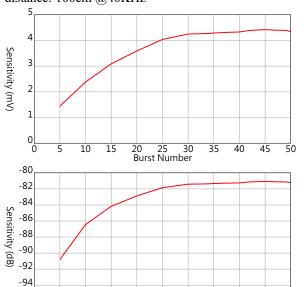
Echo Sensitivity vs. Frequency

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



Echo Sensitivity vs. Driving Burst Number

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

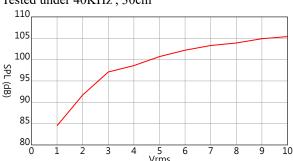


SPL Variation vs. Driving Voltage

Tested under 40KHz, 30cm

10

-96 0

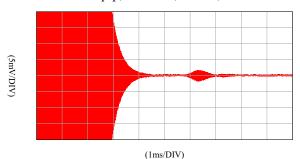


30

Burst Number

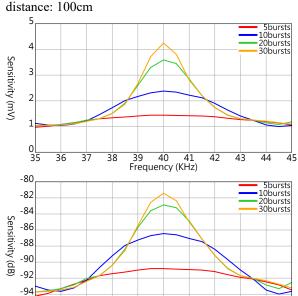
Echo Sensitivity/Ringing

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



Bandwidth vs. Driving Burst Number

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



Center Frequency Shift vs. Driving Voltage

39 40 41 Frequency (KHz)

Tested under 30cm

-96<u></u> 35

