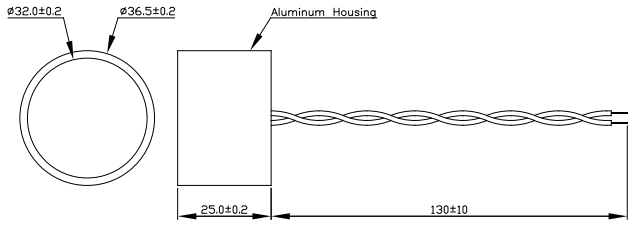
Air Ultrasonic Ceramic Transducers 080SR365

Specification

080SR365		Transceiver
Center Frequency		80.0±5.0 KHz
Bandwidth Echo Sensitivity -6dB		4.5 KHz
Echo Sensitivity 0dB re 20Vp-p @ 50 cm , 40 Bursts		-57 dB min. 28.25 mVp-p min.
Dead Zone 10 Bursts		35 cm
Capacitance at 1KHz ±20%		2800 pF
Max. Driving Voltage Pulse 2% duty cycle tone burst		700 Vp-p
Total Beam Angle	-3dB -6dB	8.0° typical 11.0° typical
Matching Window		Silicone Rubber
Operation Temperature		-20°C to 70°C
Storage Temperature		-30°C to 80°C

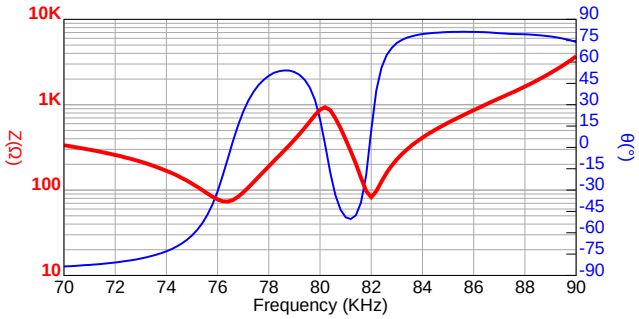
All specification taken typical at 25°C
Low ringing model can be arranged

Dimensions: dimensions are in mm



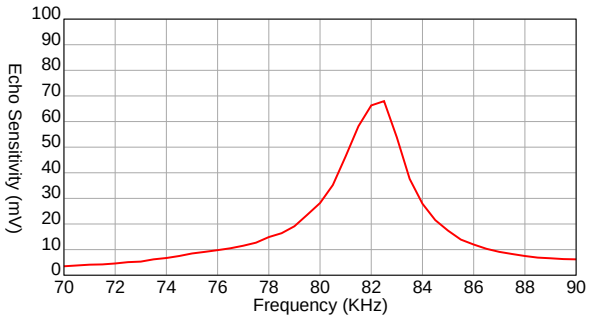
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



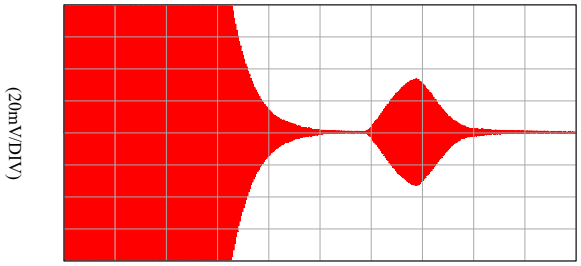
Echo Sensitivity vs. Frequency

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

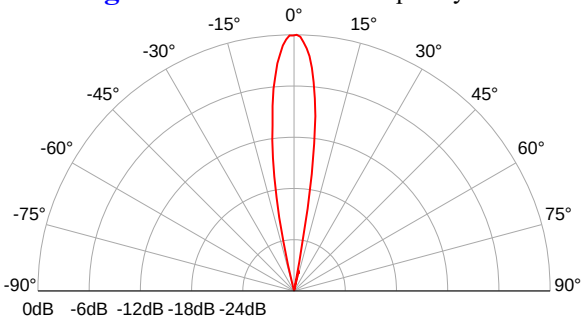


Echo Sensitivity/Ringing

Tested under 20Vp-p, 40 bursts, 50cm, 82.5KHz



Beam Angle: Tested at 80 KHz Frequency

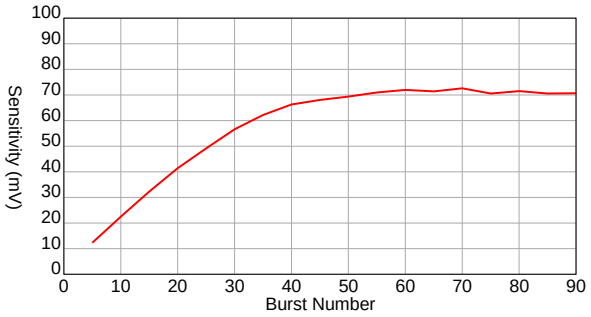


S. Square Enterprise Company Limited
Pro-Wave Electronics Corporation

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

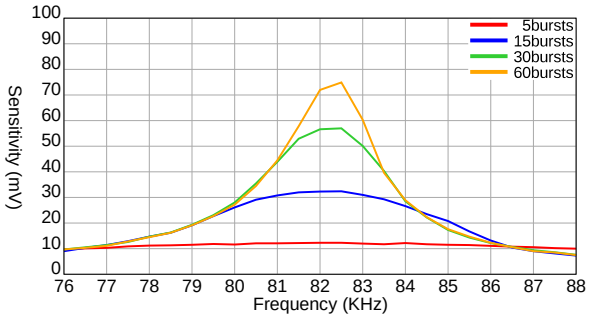
Sensitivity vs. Driving Burst Number

Driving voltage 20Vp-p sine wave, Reflection target distance: 50cm @82.5KHz



Bandwidth vs. Driving Burst Number

Driving voltage 20Vp-p sine wave, Reflection target distance: 50cm



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