



Specification

235SR130	Transceiver
Center Frequency	235.0±10.0KHz
Bandwidth Echo Sensitivity-6dB	10 KHz
Echo Sensitivity	-61 dB min.
0dB re 20Vp-p sine wave, 40 bursts @ 25cm	18 mVp-p min.
Dead Zone 10bursts	15 cm
Capacitance at 1KHz ±20%	540 pF
Max. Driving Voltage	80 Vp-p
Pulse 10% duty cycle tone burst	
Total Beam Angle	-3dB 7.5° typical
	-6dB 10.5° typical
Matching Window	Silicone Rubber
Operation Temperature	-20°C to 70°C
Storage Temperature	-30°C to 80°C

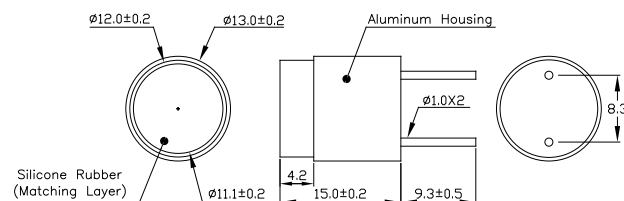
All specification taken typical at 25°C

Closer frequency tolerance, shorter ringing and wider bandwidth models can be supplied upon request.

Model available:

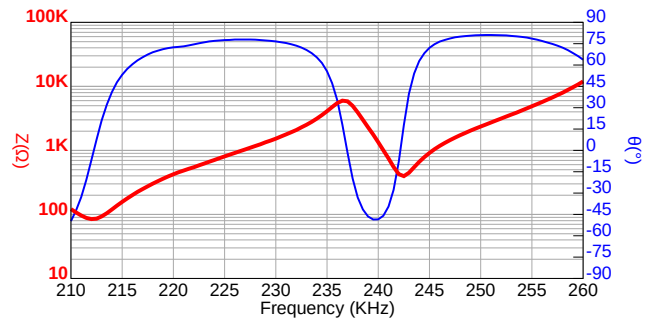
1	235AC013	Aluminum Housing
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Dimensions: dimensions are in mm



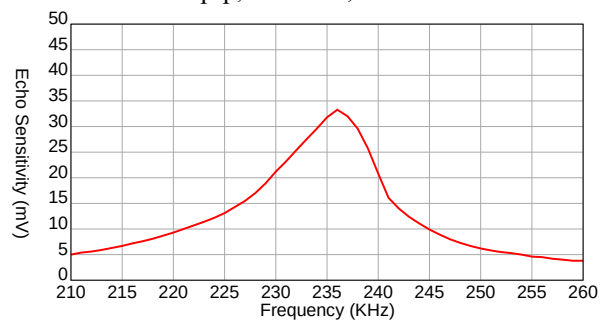
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



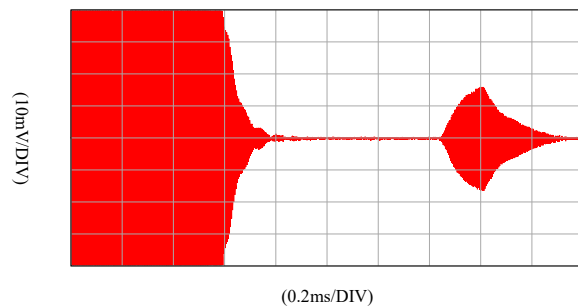
Echo Sensitivity vs. Frequency

Tested under 20Vp-p, 40 bursts, 25cm

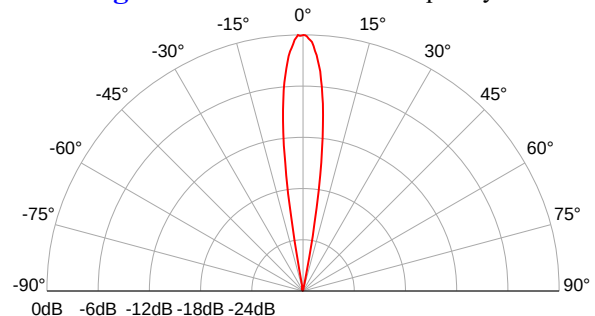


Echo Sensitivity/Ringing

Tested under 20Vp-p, 40 bursts, 25cm, 236KHz



Beam Angle: Tested at 235.0KHz Frequency

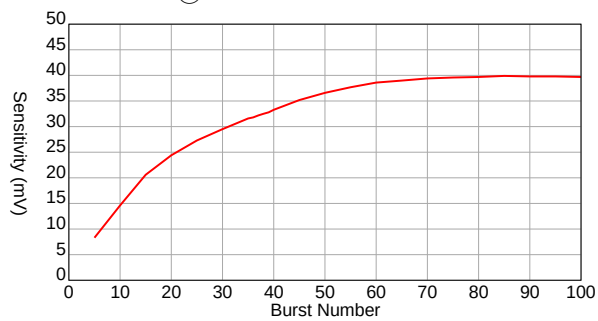


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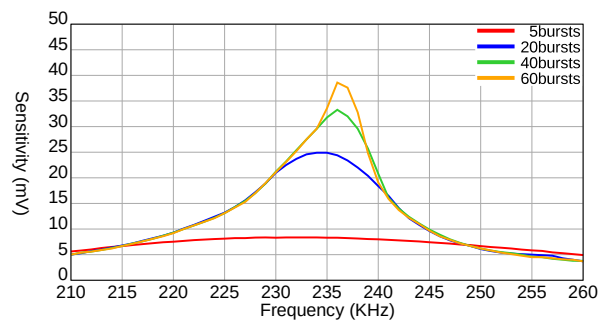
[Http://www.pro-wave.com.tw](http://www.pro-wave.com.tw) ; E-mail: sales@pro-wave.com.tw ; Tel: 886-2-22465101 ; Fax: 886-2-22465105

Sensitivity vs. Driving Burst Number

Driving voltage 20Vp-p sine wave, Reflection target distance: 25cm @236KHz

**Bandwidth vs. Driving Burst Number**

Driving voltage 20Vp-p sine wave, Reflection target distance: 25cm



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