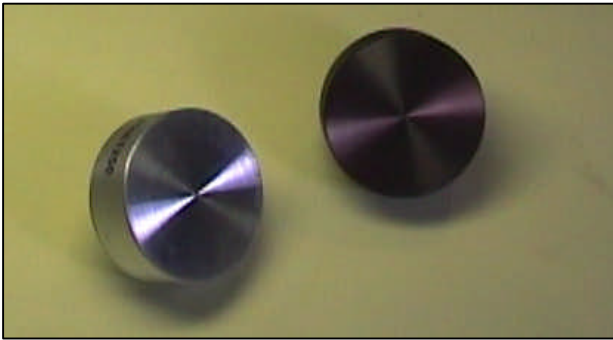
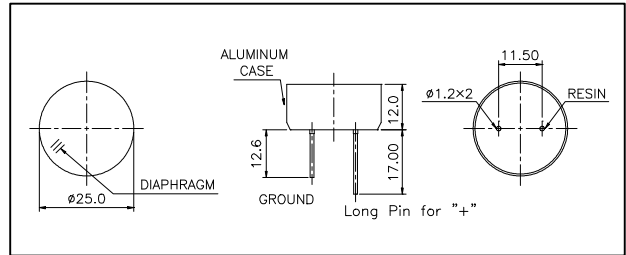


### PROWAVE Air Ultrasonic Ceramic Transducers 328ET/R250



**Dimensions:** dimensions are in mm



### Specification

<b>328ET250</b>	Transmitter
<b>328ER250</b>	Receiver
<b>Center Frequency</b>	32.8±1.0Khz
<b>Bandwidth (-6dB)</b>	328ET250 1.0Khz
	328ER250 1.0Khz
<b>Transmitting Sound Pressure Level</b>	113dB min.
at 32.8Khz; 0dB re 0.0002µbar per 10Vrms at 30cm	
<b>Receiving Sensitivity</b>	-67dB min.
at 32.8Khz 0dB = 1 volt/µbar	
<b>Capacitance at 1Khz</b>	±20% 2400 pF
<b>Max. Driving Voltage (cont.)</b>	20Vrms
<b>Total Beam Angle</b>	-6dB 33° typical
<b>Operation Temperature</b>	-30 to 80°C
<b>Storage Temperature</b>	-40 to 85°C

All specification taken typical at 25°C  
Closer frequency tolerance can be supplied upon request.

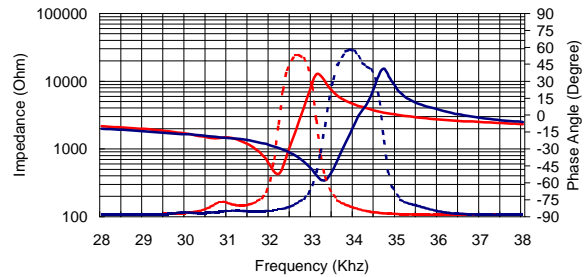
Model available:

1	328ET/R250	Aluminum Housing
2	328ET/R25B	Black Alum. Housing

### Impedance/Phase Angle vs. Frequency

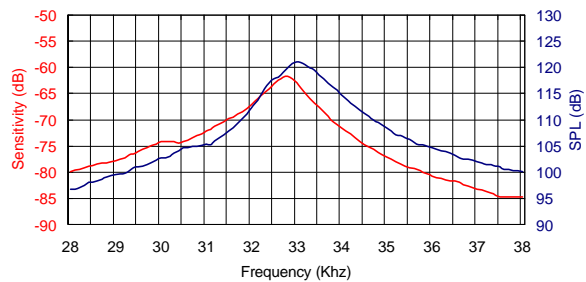
Tested under 1Vrms Oscillation Level

328ER250 Impedance ——— (Red solid line)  
328ER250 Phase ——— (Blue solid line)  
328ET250 Impedance ..... (Red dotted line)  
328ET250 Phase ..... (Blue dotted line)

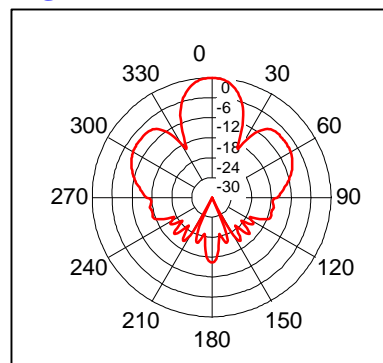


### Sensitivity/Sound Pressure Level

Tested under 10Vrms @30cm



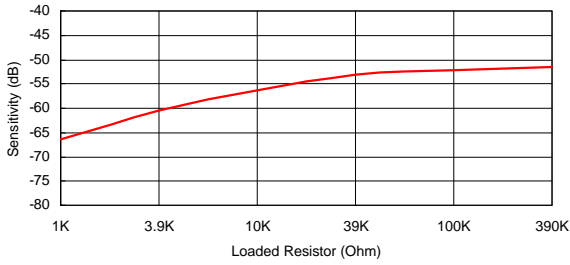
### Beam Angle: Tested at 32.8Khz frequency



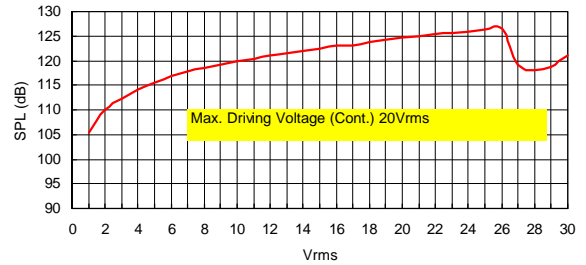
328ER250 Receiver

328ET250 Transmitter

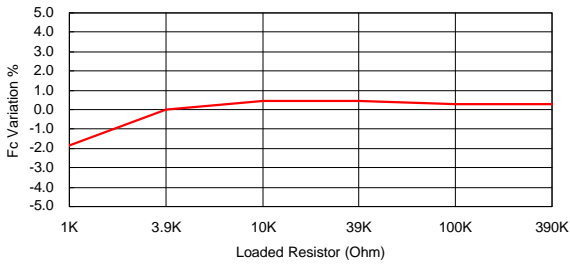
Sensitivity Variation vs. Loaded Resistor



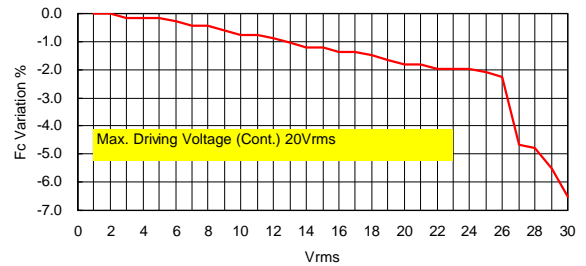
SPL Variation vs. Driving Voltage



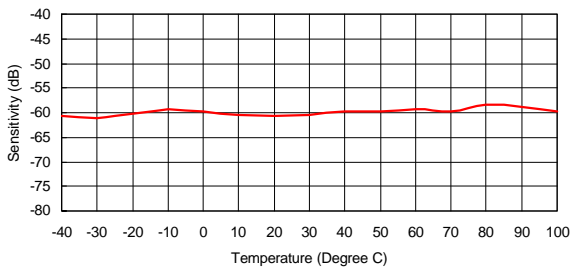
Center Frequency Shift vs. Loaded Resistor



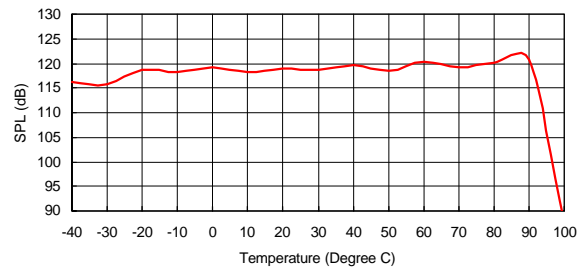
Center Frequency Shift vs. Driving Voltage



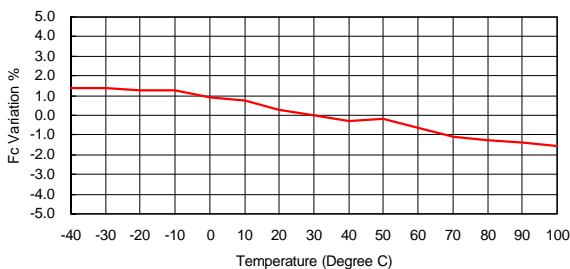
Sensitivity Variation vs. Temperature



SPL Variation vs. Temperature



Center Frequency Shift vs. Temperature



Center Frequency Shift vs. Temperature

