



SPEAKER INFORMATION

PART # **CES720V240CA08FPN350TR** **Revision: 0-2010**

DESCRIPTION: Oval Speaker, Paper Cone, 72.0X48.0X24.0 mm H, 8 Ohm, Fo = 350 Hz, P= 2 W
 Maximum, Solder tabs, RoHS Lead Free Compliant

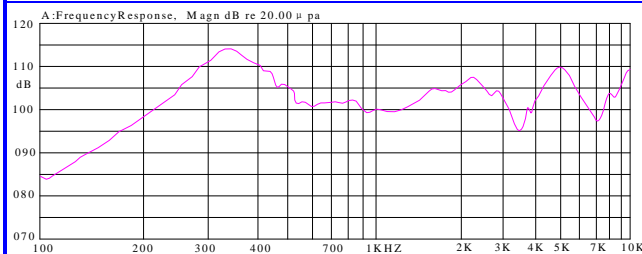
SPECIFICATIONS:

Shape:	Oval		Impedance:	8 Ω ± 15%, at: 1,000 Hz., 1.0 V		
Effective Frequency Band:	Fo ~ 7,000 Hz.		Resonant Frequency (Fo):	350 Hz. ± 20%, at 1.0 V		
Sound Pressure Level:	92.0 ± 3.0 dB (A), at: 0.1 m, 0.1 W, Average 0.8K, 1.0K, 1.2K, 1.5K (Hz), 25°C.					
Power:	At Normal Voltage:		1 W	At Maximum Voltage:		2 W
Operating Temperature:	-20°C to +55°C		Storage Temperature:		-30°C to +65°C	
Distortion:	Less than 10% at 1,000 Hz., at 0.2 W.					
Buzz & Rattle:	Not be audible at 4V sine wave between Fo ~ 7,000 Hz.					
Polarity:	When a positive DC Current is applied to the voice coil terminal marked + or red ,the diaphragm shall move forward					
Magnet:	NdFeB, 22 Ø mm, 12 mm High				Flux Density:	
Termination:	Solder tabs					
Physical Dimensions:	Length or Diameter (L /D):	72.0 mm	Width (W):	48.0 mm	Height (H):	24.0 mm
Mounting Dimensions:	Length (L):	58.0 mm	Width (W):	38.0 mm	Hole Size:	4 Each 4.0 Ø mm X 5.0 mm
Housing Material:	Fe (Zn Plated)					
Approximate Weight :	grams	Cone Material:	Paper		Compliance:	RoHS, Lead Free

Reliability: Parts should conform to original performance within ±3dB, after 3 hours of recovery period.

Heat Test:	At + 60 ± 3°C For 96 Hours, Test after 3 Hours at 25°C with sound changes less maximum ±3dB(A)
Cold Test:	At - 20 ± 2°C For 96 Hours, Test after 3 Hours at 25°C with sound changes less maximum ±3dB(A)
Thermal Shock Test:	Each cycle consist of: set at + 25°C for 30 min., leave 30 min. at - 20°C, Change from - 20°C to + 60°C (within 10 Sec.), leave 30 min. at + 60°C. Repeat the cycle 100 times, Test after 3 Hours at 25°C with sound changes less maximum ±3dB(A)
Humidity Test:	At +40 ± 3°C and relative humidity of 90.0 ~ 95% for 96 hours, Test after 3 Hours at 25°C with sound changes less maximum ±3dB(A)
Max. Power Test:	With program source 3.0 W. White Noise (EIA) 1 minute on, 2 minutes off for 10 cycles, Test after 3 Hours at 25°C with sound changes less maximum ±3dB(A)
Vibration Test:	Frequency 10 ~ 55 Hz, Sine-Wave Sweep, 15 minutes, 5G constant, Vibration in X, Y, Z 3 Directions for 2 hours each.
Drop Test:	Free-drop each side from 1.0 m on a board of 20mm thick, 1 time 6 directions). Total of 6 times.
Terminal strength:	Capable of withstand 1kg load for 15seconds without resulting in any damage or rejection.
Life Test:	Must be normal with program source 2.0 W. White Noise (EIA) for 96 Hours
Warranty:	For a period of one (1) year from date of manufacture under normal operating conditions.

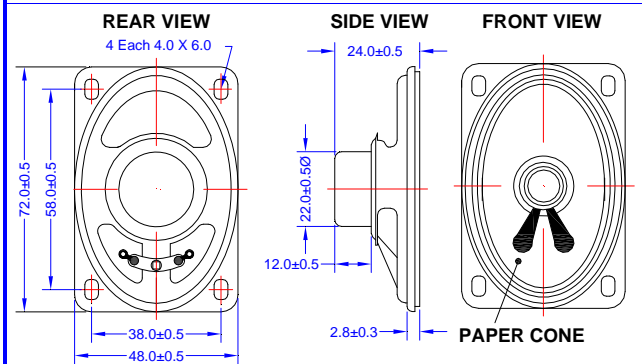
Frequency Response Curve:



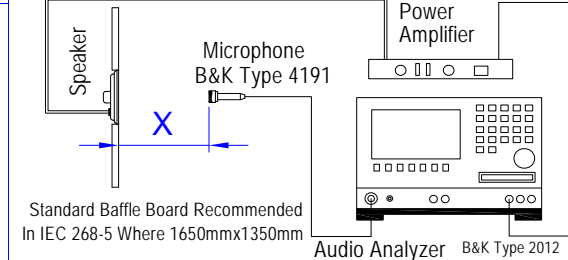
Test Diagram:

<p>Test Condition STANDARD Temperature: 15~35°C Relative humidity: 45% ~85%, Atmospheric pressure: 860mbar to 1060mbar.</p> <p>JUDGEMENT Temperature: 20±3°C Relative humidity: 60% ~70%, Atmospheric pressure : 860mbar to 1060mbar</p>	<p>Standard Test Fixture</p> <ol style="list-style-type: none"> 1. Input Power: 1W(2.83V) 2. Zero Level: -dB 3. Mode: TSR 4. potentiometer Range: 50dB 5. Sweep Time: 0.5sec <p style="text-align: center; font-size: 1.2em;">X = 10 cm</p>
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Dimensions: Units: mm Tolerance: ±0.5



Standard test condition of speaker





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TBD