




PRODUCT INFORMATION

PART #	CEET120B085-42-205-20P6.5R	Revision: 1-2011
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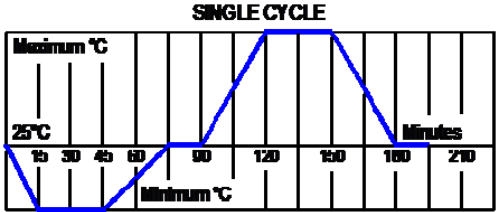
Electro-Magnetic Sound Transducer

DESCRIPTION	FEATURES	
<p>Challenge Electronics Electro-Magnetic Transducer, 12 mm diameter, B type case (Standoffs and TOP Sound Port), 8.5 mm Height, 42 Ohms coil resistance, 2 to 5 Vpp operation 2,048 Hz Resonant Frequency, with a minimum output of 88 dB(A) at 10cm. PC pins Termination with 6.5mm spacing, RoHS Lead Free compliant</p>	<ul style="list-style-type: none"> ● RoHS, Lead Free Compliant ● ISO 9001 	

SPECIFICATIONS

Resonant Frequency	2,048 ± 21 Hz.	Sound Pressure Level	88 dB(A), at rated Voltage at 10 cm					
Operating Voltage	2.0 - 5.0 Vpp	Rated Voltage	3.5 Vpp					
Coil Impedance	42 ± 6 Ohms	Current at Rated Voltage	30 mA					
Operating Temperature	-20°C to + 70°C	Storage Temperature	-30°C to + 80°C					
Termination	Two (2) PC Pins, Tin plated, 0.6 mm Diameter, 5.0 mm Long							
Material	Case	B type, Plastic, Noryl™						
	Encapsulation	PCB						
Sound Port Direction	Top	Case Standoffs from PCB	Yes	Removable Washing Label			No	
Physical Dimensions	Length or Diameter (L/D)	12.0 mm ø	Width (W)	Height (H)	8.5 mm	Pins Spacing	6.5 mm	
Approximate Weight	2 grams	Compliance	RoHS, Lead Free					
Options								

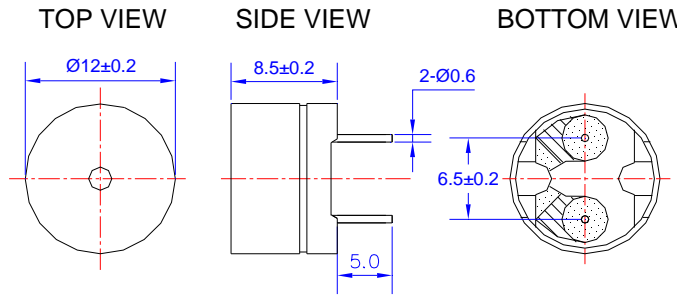
RELIABILITY

Thermal Operating Temperature Test	240 hours continuous operation at Rated Voltage, at Maximum Rated Operating Temperature *	
	240 hours continuous operation at Rated Voltage, at Minimum Rated Operating Temperature *	
Thermal Storage Temperature Test	After parts are subjected to 240 hours storage at Maximum Rated Storage Temperatures *	
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Thermal Shock Test	<p>After parts are subjected to five (5) cycles of Minimum and Maximum Operating Temperature. Each cycle shall be set per diagram below and is three (3) hours long *</p> 	
Humidity Test	After parts are subjected to 240 Hours at +40°C±2°C. 90-95% RH *	
Insulation Test	A minimum of 10 MΩ, measured with 100 Vdc Insulation Resistance Meter, between the Electrical Terminals and the Transducer Case	
Vibration Test	After parts are subjected to 2 Hours of at 1.5 mm with 10 to 55 Hz. vibration frequency to each of 3 perpendicular directions *	
Termination Strength	Maximum of 9.8 N (1.0 Kg) load pull test, applied to each terminal in axial direction for 10 seconds	
Drop Test	After parts are subjected to dropped naturally from 750 mm height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times (6 times total) *	
Solderability	Terminal leads are immersed in rosin for 5 seconds and then immersed in solder-bath of +270°C for 3±1 seconds	
Soldering Heat Resistance	Terminal leads are immersed, up to 1.5 mm from part case, in rosin for 5 seconds and then immersed in solder-bath of +350±5°C for 3±0.5 seconds or +260±5°C for 10±1 seconds	
Reliability Test Performance *	Parts should conform to original performance within ±3dB, after 3 hours of recovery period.	
Operation Life Test	Continuous	240 hours of continuous operation, at Rated Voltage, each at Minimum & Maximum Rated Operating Temperatures
	Intermittent	One thousand (1,000) hours of: 1 minute ON 4 minutes OFF cycle, at Room Temperature, and Rated Voltage
Warranty	For a period of one (1) year from date of shipping under normal operations conditions	

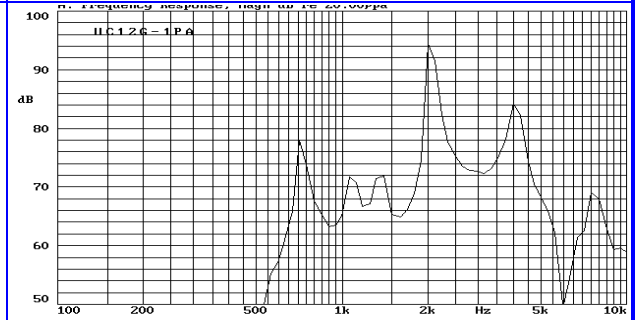


DIMENSIONS

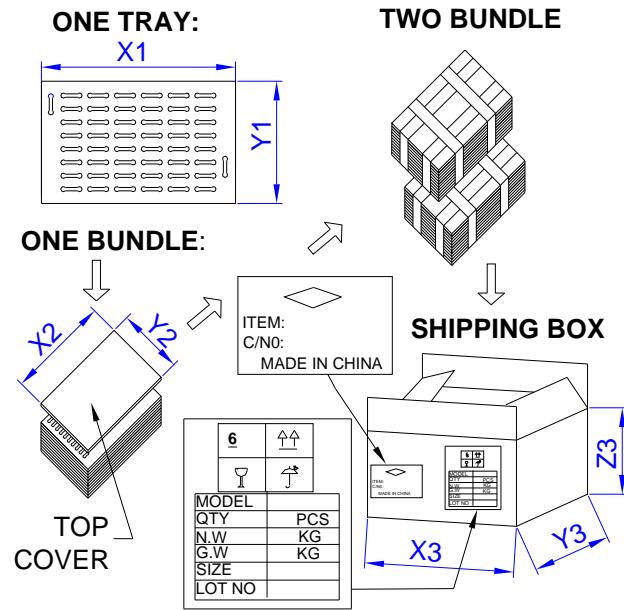
Units in: mm, Tolerance: ± 0.5mm unless specified otherwise.



SPL vs. FREQUENCY RESPONSE



PACKAGING



MARKING		TRAY	
Bundle	Dimensions	X1	24 cm
Customer PN		Y1	16 cm
Other PN if required	Quantity		100
Quantity	BUNDLE		
Lot and/or Date Code	Dimensions	X2	25 cm
Bundle Number		Y2	17 cm
Shipping Box	Quantity		1,000
Customer Part Number	SHIPPING BOX		
Other PN (if required)	Dimensions	X3	50.5 cm
Quantity		Y3	42 cm
Lot and/or Date Code		Z3	28 cm
PO Number	Number of Bundles		5
Net Weight	Quantity		5,000
Gross Weight	Approximate Weight		
Box Number			
of Number of Boxes			
Made in China			