



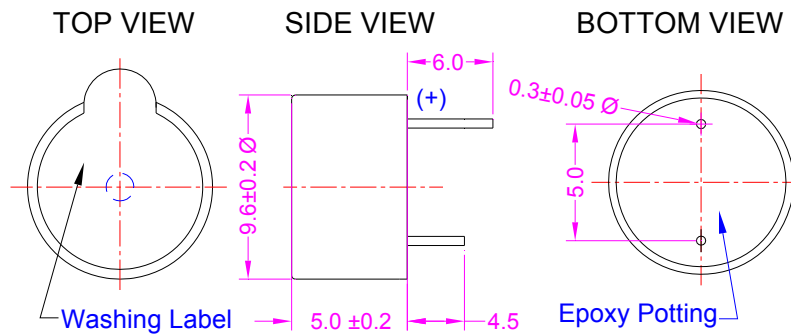
# PRODUCT INFORMATION

<b>PART #</b>	<b>CEEB096A050-307C25P5LR</b>							<b>Revision: 4-2016</b>		
	<b>ELECTROMAGNETIC BUZZER</b>									
<b>DESCRIPTION:</b>					<b>FEATURES:</b>					
<p><b>Challenge Electronics Electromagnetic Buzzer</b>, 9.6 mm diameter, <b>A</b> type case (Round, No PCB Standoffs, TOP Sound Port), 5.0 mm Height, 3 to 7 Vdc operation, <b>Continuous</b> Tone, 2,500 Hz Resonant Frequency, with a minimum output of 80 dB(A) at 5 Vdc, 10 cm, <b>PC Pins 5.0 mm</b> spaced Termination, with Removable Washing Label, <b>RoHS Lead Free</b> compliant</p>					<ul style="list-style-type: none"> <li>◆ <b>Extended Operating Temperature</b></li> <li>◆ <b>Flame Retardant Plastic</b></li> <li>◆ <b>ISO 9001 Certified</b></li> <li>◆ <b>RoHS compliant</b></li> </ul>					
<b>SPECIFICATIONS</b>										
<b>Sound Type</b>	<b>Continuous Tone</b>			<b>Sound Pressure Level</b>	<b>Minimum 80 dB(A), at Nominal Rated Voltage, 10 cm</b>					
<b>Operating Voltage</b>	<b>3.0 - 7.0 Vdc</b>	<b>Nominal Rated Voltage</b>	<b>5.0 Vdc</b>	<b>Operating Current</b>	<b>30 mA, at Nominal rated Voltage</b>					
<b>Resonant Frequency</b>	<b>2,500 ± 200 Hz.</b>			<b>Operating Temperature</b>	<b>-30°C to + 70°C</b>		<b>Storage Temperature</b>	<b>-40°C to + 85°C</b>		
<b>Material</b>	<b>Housing</b>	<b>PBT housing</b>								
	<b>Diaphragm</b>	<b>Ni Alloy Disc N50</b>				<b>Bottom Encapsulation</b>	<b>Plastic or PCB Cover</b>			
	<b>Termination</b>	<b>Two (2), PC Pins, 0.6 mm ø, Brass Nickel (Sn) plated, Positive 6.0 mm Long, Negative 4.5 mm Long</b>								
<b>Sound Port Direction</b>	<b>Top</b>			<b>Case Standoffs from PCB</b>	<b>No</b>		<b>Removable Washing Label</b>	<b>Yes</b>		
<b>Physical Dimensions</b>	<b>Length or Diameter (L /D)</b>		<b>9.6 mm ø</b>	<b>Width (W)</b>			<b>Height (H)</b>	<b>5.0 mm</b>	<b>Pins Spacing</b>	<b>5.0</b>
<b>Approximate Weight</b>	<b>0.9 grams</b>			<b>Compliance</b>	<b>RoHS</b>					
<b>Options</b>										
<b>RELIABILITY</b>										
<b>Thermal Operating Temperature Test</b>	<b>96 hours</b> continuous operation at <b>Rated Voltage</b> , at <b>Maximum Rated Operating Temperature</b> *									
	<b>96 hours</b> continuous operation at <b>Rated Voltage</b> , at <b>Minimum Rated Operating Temperature</b> *									
<b>Thermal Storage Temperature Test</b>	<b>96 hours</b> storage at <b>Maximum Rated Storage Temperatures</b> *									
	<b>96 hours</b> storage at <b>Minimum Rated Storage Temperatures</b> *									
<b>Thermal Shock Test</b>	<p><b>5 cycles</b> of Minimum and <b>Maximum Operating Temperature</b>          Each cycle shall be set per diagram below and is three (3) hours long *</p>									
<b>Humidity Test</b>	<b>96 Hours</b> at +40°C±2°C. 90-95% RH *									
<b>Insulation Test</b>	A minimum of 10 MΩ, measured with 100 Vdc Insulation Resistance Meter, between the Electrical Terminals and the Transducer Case									
<b>Vibration Test</b>	2 Hours of at 0.75 mm with 10 to 55 Hz. vibration frequency to each of 3 perpendicular directions *									
<b>Termination Strength</b>	Maximum of 9.8 N (1.0 Kg) load pull test, applied to each terminal in axial direction for <b>10 seconds</b>									
<b>Drop Test</b>	Dropped naturally from 750 mm height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times (9 times total) *									
<b>Solderability</b>	Terminal leads are immersed in rosin for 5 seconds and then immersed in solder-bath of +350 ± 5 °C for 3 ± 0.5 seconds									
<b>Soldering Heat Resistance</b>	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									
* <b>Reliability Test Performance</b> <b>Parts should conform to original performance within ±3dB, after 3 hours of recovery period</b>										
<b>Operation Life Test</b>	<b>Continuous</b>	240 hours of continuous operation, at <b>Rated Voltage</b> , each at <b>Minimum &amp; Maximum Rated Operating Temperatures</b>								
	<b>Intermittent</b>	One thousand (1,000) hours of: 1 minute <b>ON</b> 4 minutes <b>OFF</b> cycle, at <b>Room Temperature</b> , and <b>Rated Voltage</b>								
<b>Warranty</b>	For a period of one (1) year from date of shipping under normal operations conditions This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair									

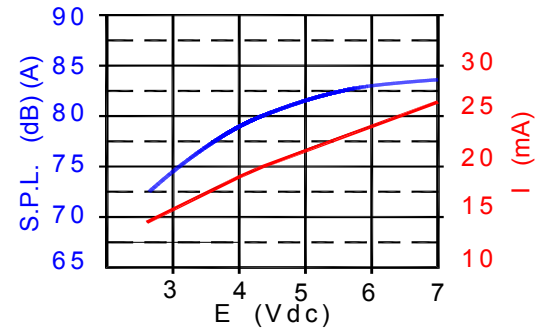


**DIMENSIONS**

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



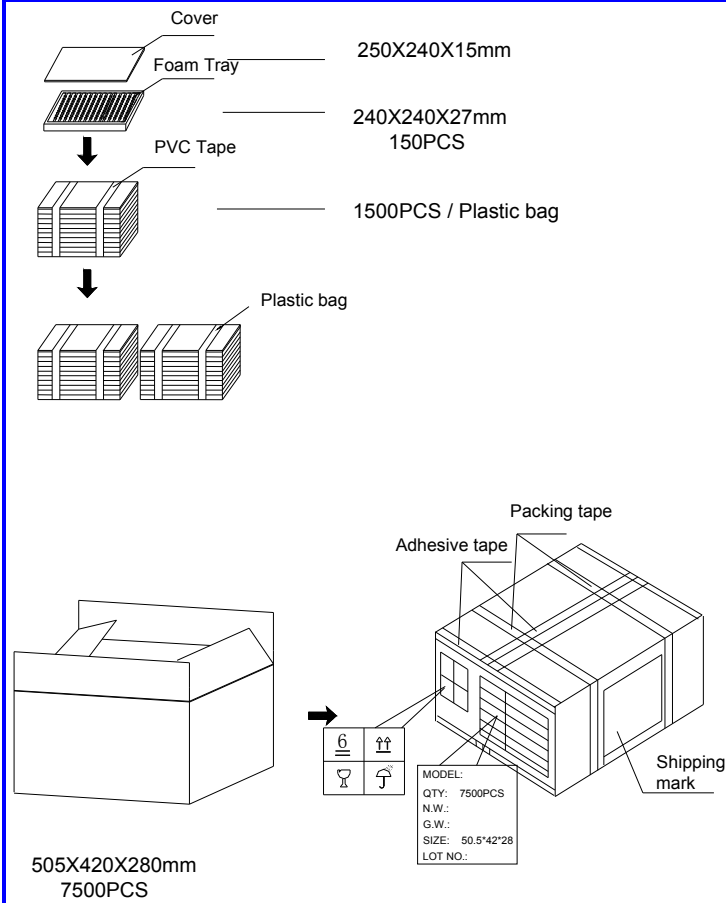
**SPL & CURRENT RESPONSE**



**SUBSTANCE OF VERY HIGH CONCERN (SVHC)**

This product does NOT contain any of the REACH Substances of Very High Concern (SVHC), and is in compliance with European Union REACH Regulation No.1907/2006 regarding chemical substances which must be registered or disclosed.

**PACKAGING**



**MARKING**

		Reel	
<b>TRAY</b>		X1	25.0cm
Customer PN	Dimensions	Y1	24.0cm
Quantity		Z1	2.7cm
Lot and/or Date Code	Quantity	150	
Bundle Number	<b>Box</b>		
<b>BUNDLE</b>		X2	25.0 cm
Customer Part Number	Dimensions	Y2	24.0 cm
Other PN (if required)		Z2	27.0 cm
Quantity	Quantity	1,500	
Lot and/or Date Code	<b>SHIPPING BOX</b>		
PO Number	Dimensions	X3	50.5 cm
Net Weight		Y3	42.0 cm
Gross Weighjt		Z3	28.0 cm
Box Number	Number of Bundles	5	
of Number of Boxes	Quantity	7,500	
<b>Made in China</b>	Approximate Weight	10 kg	

Revision	Description	By	Date
3-2013	Corrected description (changed "square" to "diameter")	WS	11/18/2013
4-2016	Changed housing from Noryl to PBT. Added REACH statement	WS	3/14/2016