



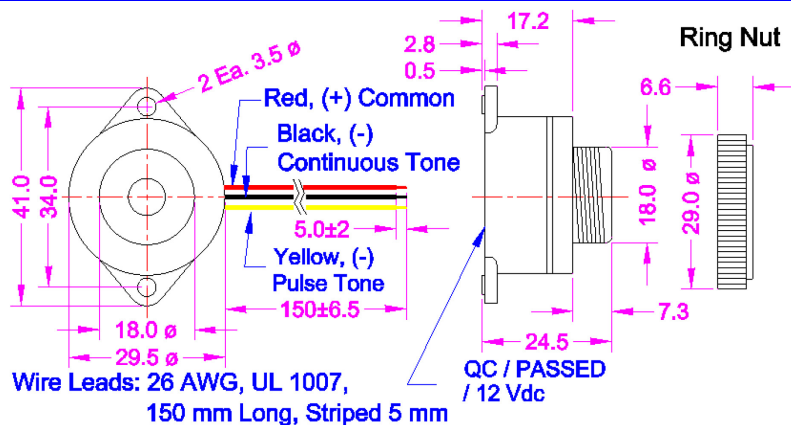
# PRODUCT INFORMATION

<b>PART #</b>	<b>CEPB295I245-315CSP32W150R</b>					Revision: 1-2014	
	<b>PIEZOELECTRIC BUZZER</b>						
<b>DESCRIPTION</b>	<b>Challenge Electronics Piezoelectric Buzzer; 29.5 mm Diameter; I style case (Flange or THROUGH Panel Hole Mounting); 24.5 mm High; 3-15 Vdc; Continuous tone or Slow Pulse Tone Medium Loud; 3,200 Hz Resonant Frequency; Minimum Sound Pressure Level 95 dB(A), at 30 cm and Nominal Voltage; Lead Wires, 150 mm long Termination; RoHS Compliant, REACH compliant</b>				<b>FEATURES</b>		
					<ul style="list-style-type: none"> <li>● <b>RoHS Compliant</b></li> <li>● <b>ISO 9001 Certified</b></li> </ul>		
<b>SPECIFICATIONS</b>							
<b>Alarm Type</b>	Medium Loud, Dual Function Tones-- Continuous or Slow Pulse			<b>Pulse Rate</b>	1.2 ± 30% per Second		
<b>Operating Voltage</b>	3 – 15 Vdc	<b>Nominal Voltage</b>	12 Vdc	<b>Resonant Frequency</b>	3,200 ± 500 Hz.		
<b>Sound Pressure Level</b>	Minimum 95 dB(A) Continuous Tone; 90 dB(A) Intermittent Tone; at: Nominal Voltage, 30 cm						
<b>Operating Current</b>	20 mA at Nominal Voltage						
<b>Operating Temperature</b>	-20°C to + 60°C	<b>Storage Temperature</b>	-30°C to + 70°C				
<b>Material</b>	<b>Housing</b>	Plastic, ABS or equal or equal, Black			<b>Sound Port Opening</b>	Top	
	<b>Diaphragm</b>	Brass			<b>Encapsulation</b>		
	<b>Termination</b>	Wire leads, 26 AWG, UL 1007, 5.9 (150 mm) Long, Striped 0.196" (5.0 mm), Color Coded: Red = Positive, Common Black = Negative, Continuous tone Yellow = Negative, Intermittent Tone					
<b>Physical Dimensions</b>	<b>Length (L)</b>	41.0 mm	<b>Width (W)</b>	29.5 mm Ø	<b>Height (H)</b>	24.5 mm	
<b>Dual Panel Mounting</b>	<b>Flange</b>	<b>Mounting Spacing</b>	34.0 mm	<b>Hole diameter</b>	2 Each, 3.5 mm Ø	<b>Hole Trough Panel</b>	19.0 mm Ø
<b>Approximate Weight</b>	15 grams	<b>Removable Washing Label</b>	No	<b>Compliance</b>	RoHS, REACH		
<b>Options</b>							
<b>RELIABILITY</b> Parts should conform to original performance within ±5dB, after 3 hours of recovery period.							
<b>Thermal Operating Temperature Test</b>	96 hours continuous operation at <b>Rated Voltage</b> , at <b>Maximum Rated Operating Temperature</b> *						
	96 hours continuous operation at <b>Rated Voltage</b> , at <b>Minimum Rated Operating Temperature</b> *						
<b>Thermal Storage Temperature Test</b>	96 hours storage at <b>Maximum Rated Storage Temperatures</b> *						
	96 hours storage at <b>Minimum Rated Storage Temperatures</b> *						
<b>Thermal Shock Test</b>	5 cycles of <b>Minimum and Maximum Operating Temperature</b> , Each cycle shall be set per diagram and is 3 hours long *						
<b>Humidity Test</b>	120 Hours at +60°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 1.5 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 +270°C for 3±1 seconds						
<b>* Reliability Test Performance</b>	Parts should conform to original performance within ±3dB, after 3 hours of recovery period						
<b>Life Test</b>	<b>Intermittent</b>	1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and <b>maximum rated voltage</b>					
	<b>Continuous</b>	250 hours continuous operation at <b>maximum rated Voltage and maximum Operating Temperatures</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						

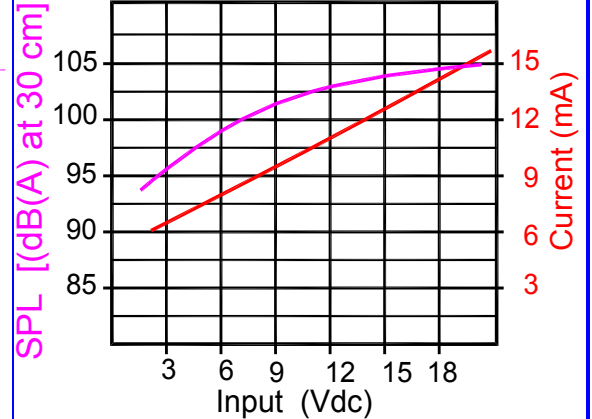
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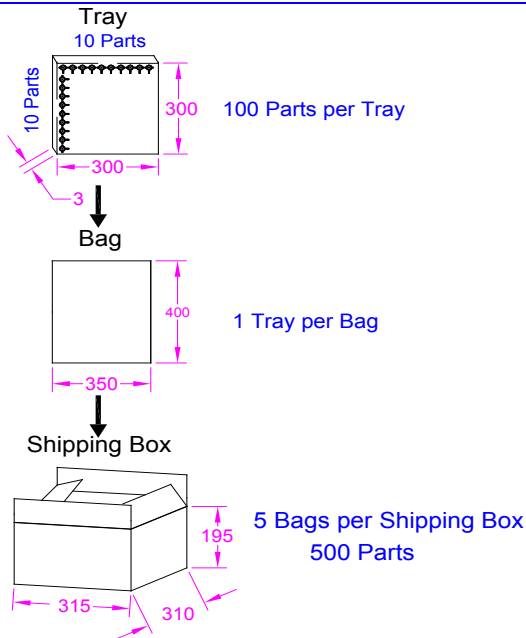
**DIMENSIONS** Units in: mm Tolerance: ± 0.5 mm



**SPL and Current vs. Input Voltage Response**



**PACKAGING**



MARKING		TRAY	
<b>Bundle</b>		X1	30 cm
Part Number	Dimensions	Y1	30 cm
Other PN if required		Z1	3 cm
Quantity	Quantity	<b>100</b>	
Lot and/or Date Code	<b>Bag</b>		
Bundle Number	Dimensions	X2	30 cm
<b>Shipping Box</b>		Y2	30 cm
Part Number		Z2	16 cm
Other PN (if required)	Quantity	<b>100</b>	
Quantity	<b>SHIPPING BOX</b>		
Lot and/or Date Code	Dimensions	X3	31.5 cm
PO Number		Y3	31 cm
Net Weight		Z3	19.5 cm
Gross Weight	Number of Bags	<b>5</b>	
Box Number of Boxes	Quantity	<b>500</b>	
<b>Made in China</b>	Approximate Weight		

Revision	Description	By	Date
1-2014	Changed Blue Wire to Yellow	W. Sargent	2014-12-10