



PRODUCT INFORMATION

PART #:	CEPB500A290-513C25PR	Revision: 0-2014
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PIEZOELECTRIC BUZZER



DESCRIPTION

Challenge Electronics Piezoelectric Buzzer; 50.0 mm Diameter; A style case; 29.0 mm High; 5-13 Vdc; Continuous Tone Extra Loud; 2,500 Hz. Resonant Frequency; Minimum Sound Pressure Level at 105 dB(A) at 30 cm and Nominal Voltage; PC Pins; RoHS Compliant

SPECIFICATIONS

Alarm Type	Extra Loud, Continuous Tone			Pulse Rate		
Operating Voltage	5 – 13 Vdc	Nominal Voltage	12 Vdc	Resonant Frequency	2,500 ± 500 Hz.	
Minimum Sound Pressure Level	At 5 Vdc	98 dB(A)	At 12 Vdc	105 dB(A)	At 13 Vdc	106 dB(A)
Operating Current	30 mA at 5 Vdc		75 mA at 12 Vdc		80 mA at 13 Vdc	
Operating Temperature	-20°C to +60°C	Storage Temperature	- 30°C to +70°C			
Material	Alarm Case	Plastic, ABS, or equal, Black			Sound Port	Top
	Diaphragm	Brass				
	Encapsulation	Plastic cover				
	Termination	Two (2) Pins, Phosphor Bronze				
Physical Dimensions	Length or Diameter (L /D)	50.0 mm Ø	Width (W)	mm	Height (H)	29.0 mm
Approximate Weight	28 grams	Removable Washing Label	No	Compliance	RoHS, Lead Free	
Available Options	.					

RELIABILITY

Thermal Operating Temperature Test	96 hours continuous operation at Rated Voltage , at Maximum Rated Operating Temperature *
	96 hours continuous operation at Rated Voltage , at Minimum Rated Operating Temperature *
Thermal Storage Temperature Test	96 hours storage at Maximum Rated Storage Temperatures *
	96 hours storage at Minimum Rated Storage Temperatures *
Thermal Shock Test	<p>5 cycles of Minimum and Maximum Operating Temperature Each cycle shall be set per diagram and is 3 hours long *</p>
Humidity Test	120 Hours at +60°C±2°C. 90-95% RH *
Vibration Test	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	Dropped naturally from 750 mm height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times each (9 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
* Reliability Test Performance	Parts should conform to original performance within ±3dB, after 3 hours of recovery period
Life Test	Intermittent 1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated voltage
	Continuous 250 hours continuous operation at maximum rated Voltage and maximum Operating Temperatures
Warranty	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



<p>DIMENSIONS Units in: mm Tolerance: ± 0.5 mm</p>	<p>SPL and Current vs. Input Voltage Response</p>
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PACKAGING				
<p>4 × 3PCS=12PCS/box</p> <p>120PCS/CTN</p>	MARKING	TRAY		
	Bundle	Dimensions	X1	22 cm
	Part Number		Y1	15.5 cm
	Other PN if required		Z1	6 cm
	Quantity	Quantity		12
	Lot and/or Date Code	BUNDLE		
	Bundle Number	Dimensions	X2	cm
	Shipping Box		Y2	cm
	Part Number		Z2	cm
	Other PN (if required)	Quantity		
	Quantity	SHIPPING BOX		
	Lot and/or Date Code	Dimensions	X3	31.5 cm
	PO Number		Y3	31 cm
	Net Weight		Z3	30 cm
	Gross Weighjt	Number of Bundles		10
Box Number of Boxes	Quantity		120	
Made in China	Approximate Weight			

Revision	Description	By	Date