

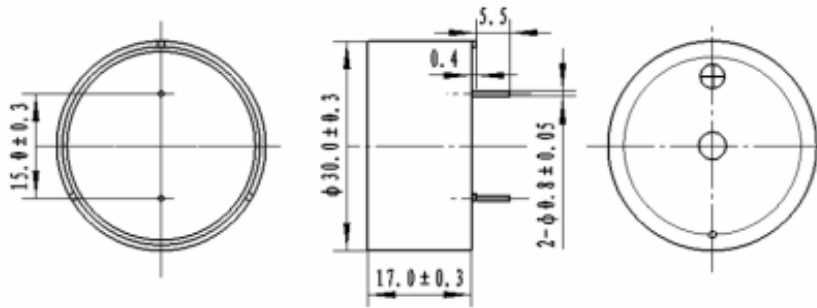


PRODUCT INFORMATION

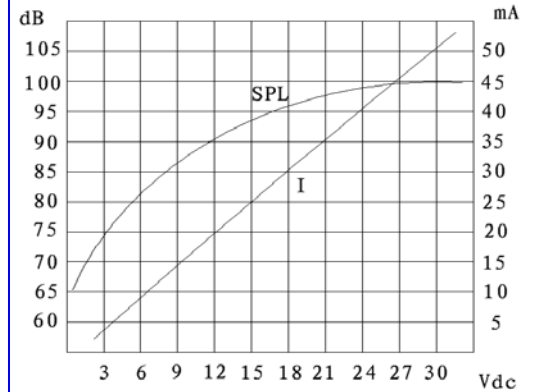
PART #	CEPB300B174-12-330C18P15R					Revision: 0-2012		
	PIEZOELECTRIC BUZZER							
DESCRIPTION				FEATURES				
<p>Challenge Electronics Piezoelectric Buzzer, 30.0 mm Diameter, B style case (Round with Standoffs and Top Sound Port), 17.4 mm High, 3-30 Vdc, Continuous Tone Medium-Low Loud, 1,800 Hz Resonant Frequency, Sound Pressure Level at 87 dB(A) at 10 cm and Nominal Voltage, PC Pins 15 mm apart Termination, RoHS Compliant</p>				<ul style="list-style-type: none"> • RoHS Compliant • ISO 9001 Certified 				
SPECIFICATIONS								
Alarm Type		Medium-Low Loud, Continuous Tone				Pulse Rate		
Operating Voltage		3 - 30 Vdc	Nominal Voltage		12 Vdc	Resonant Frequency		1,800 ± 500 Hz.
Sound Pressure Level		Minimum 87 dB(A), Typical 90 ± 3 dB(A), at: Nominal Voltage, 10 cm, 25°C						
Operating Current		20 mA at Nominal Voltage						
Operating Temperature		-20°C to + 70°C				Storage Temperature		-30 °C to + 70°C
Material	Housing	Plastic, ABS or equal or equal, Black				Sound Port Opening		Top
	Diaphragm	Brass				Encapsulation		Plastic Base or Epoxy
	Termination	Two PC Pins, 0.032" (0.8 mm) Diameter, Copper, Electro-Tin Plated						
Physical Dimensions		Length/ Diameter (L /D)	30.0 mm Ø	Width (W)		Height (H)	17.4 mm	Pin Spacing 15.0 mm
Approximate Weight		5 grams		Removable Washing Label	No	Compliance		RoHS
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		5 cycles of Minimum and Maximum Operating Temperature , Each cycle shall be set per diagram and is 3 hours long *						
Humidity Test		120 Hours at +60°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		2 Hours of at 0.75 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 (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						
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						



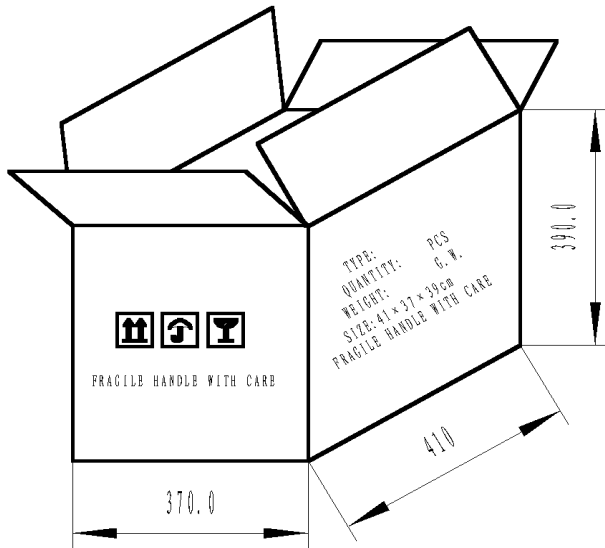
DIMENSIONS Units in: mm Tolerance: ± 0.5 mm



SPL and Current vs. Input Voltage Response



PACKAGING



MARKING		TRAY	
Bundle		X1	cm
Customer PN	Dimensions	Y1	cm
Other PN if required		Z1	cm
Quantity		Quantity	50
Lot and/or Date Code	BUNDLE		
Bundle Number	Dimensions	X2	cm
Shipping Box		Y2	cm
Customer Part Number		Z2	cm
Other PN (if required)	Quantity		
Quantity	SHIPPING BOX		
Lot and/or Date Code	Dimensions	X3	41 cm
PO Number		Y3	37 cm
Net Weight		Z3	39 cm
Gross Weight	Number of Trays		20
Box Number	Quantity		1,000
of Number of Boxes	Approximate Weight		
Made in China			