1-800-722-8197 **EMAIL: SALES@CHALLELEC.COM** 1-631-595-2217 WEB: WWW.CHALLENGEELECTRONICS.COM

ISO 9001:2008 Certified

PRODUCT INFORMATION

Fax: 1-631-667-5484

PART# CEPB238A111-618C32MHR

Revision: 0-2015



SMD PIEZOELECTRIC BUZZER

FEATURES: DESCRIPTION:

Challenge Electronics Piezoelectric Buzzer, 23.8 mm diameter, A type case (Round No/Standoffs, and TOP Sound Port), 11.1 mm Height, 6 to 18 Vdc operation, Continuous Tone, 3,200 Hz Resonant Frequency, with a minimum output of 90 dB(A) at, 9 Vdc, 10 cm, SMD Termination, High Temp, RoHS compliant

- ♦ Extended Operating Temperature

- Flame Retardant Plastic
 Lead Free Reflowing Solderable
 ISO 9001 & TS16949 Certified
 ROHS compliant



SPECIFICATIONS

Sound Type		Continuou	s Tone	Operating	Voltage	6.0 - 18.0 Vd	c Nomi	Nominal Rated Voltage		9.0 Vdc	
Sound Pressure Level		90 dB(A), at Nominal Rated Voltage, 10 cm									
Operating Current		10 mA, at Nominal Rated Voltage									
Resonant Frequency		3,200 ± 500	Hz.	Operating Temp	perature	-40°C to + 85°	C Storage Temperat		ıre	e -40°C to + 90°C	
	Housing	Plastic, PPS A7-03 or equal					Sound 1	Sound Port Direction		Тор	
Material	Diaphragm	Ni Alloy Disc N42 or equal					I	Encapsulation		No	
i	Termination	4 soldering pads, Sn plated Brass									
Physical Dimensions		Dia	meter (D)	23.8 mm Ø			Height (H)	11.1 mm			
Approximate Weight		3.4 grams	Remova	ble Washing La	bel No	Compliance	RoHS				
Options											

Options								
RELIABIL	IIY							
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 shell be set per diagram below and is three (3) hours long *	SINGLE CYCLE Maximum °C					
Humidity Test		240 Hours at +40°C±2°C. 90-95% RH *						
Insulation Test		A minimum of 10 M Ω , measured with 100 Vdc Insulation Resistance Meter, between the Electrical Terminals and the Transducer Case						
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 (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						
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						
rest		One thousand (1,000) hours of: 1 minute ON 4 minutes C						
Warranty		d of one (1) year from date of shipping under normal operations conditions nty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to						

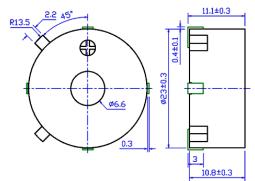
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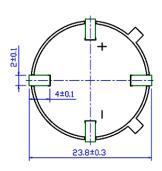
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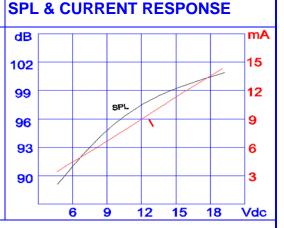
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DIMENSIONS

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



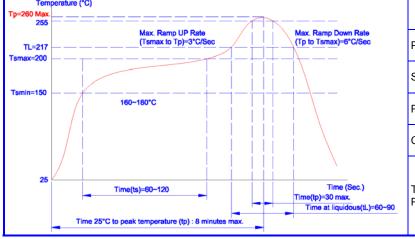




RECOMMENDED LAND PATTERN STORAGE

- 1. Shelf life: Twelve (12) months when devices are to be stored in factory supplied unopened ESD moisture sensitive bag under maximum environmental conditions of 30°C, 70% R.H.
- 2. Exposure: Devices should not be exposed to high humidity high temperature environment. MSL (moisture sensitivity level) Class 2

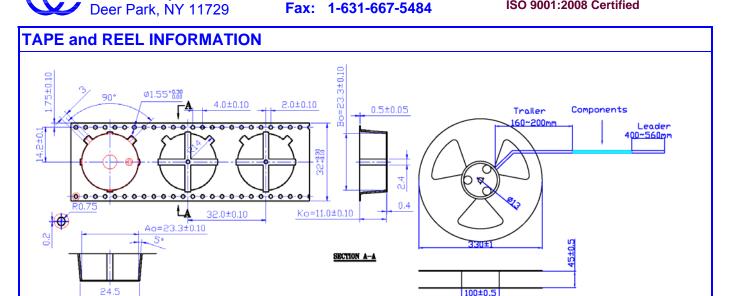
Solder Reflow Profile:



Stage	Temperature Profile	Maximum Time			
Pre-heat	170~230ºC	120 sec			
Solder Melt	Above 230°C	90 sec			
Peak	260°C Maximum	30 sec			
Cool Down		90 sec			
Total Duration Period		9 Minutes Maximum			

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NOTE:

- 1.10 sprocket holes pitch cumulative tolerance +/-0.20mm.
- 2. Carrier camber not to exceed 1 mm in 100 mm.
- 3. Ao & Bo measured on a place 0.3 mm above the bottom of the pocket
- 4. Ko measured from a plane on the inside bottom of pocket to the top surface of the carrier.
- 5. All dimensions meet EIA-481-2-A requirements.
- 6. Component loaded per 13" reel: 150 pcs.

PACKAGING	MARKING	Reel			
box		Bundle		X1	33.0 cm
r products(4 tray)	Part Number	Dimensions	Y1	33.0 cm	
plastic bag	Quantity		Z 1	4.5 cm	
22.5cm	pearl cotton put the products	Lot and/or Date Code	Quantity		150
35cm 35cm	SSCIII into the plantic				
		Part Number			
\ \		Customer PN (if required)			
1		Quantity			
		Lot and/or Date Code	SHIPPING BOX		ЗОХ
put the products in the plastic bag into the box	PO Number	Dimensions X3 Z3		35.0 cm	
	Net Weight			35.0 cm	
put the pearl of	Gross Weight			22.5 cm	
	Box Number of Boxes	Number of Reels 4		4	
	Made in China	Quantity 60		600	
22.5cm	35cm		Approximate Weight 4 .		4.6 kg.
Revision	vision Description			Ву:	