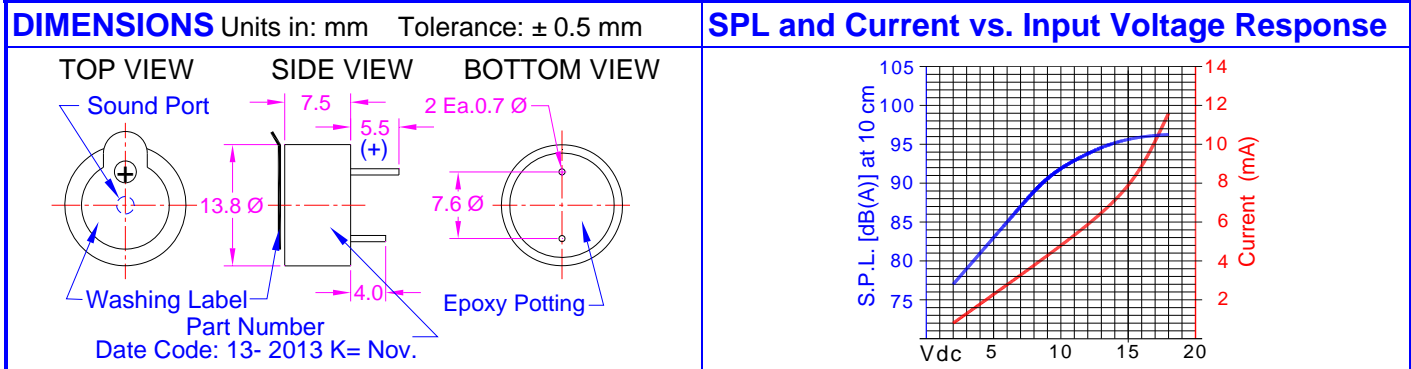


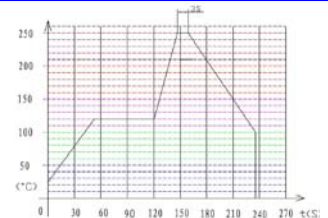


PRODUCT INFORMATION

PART #:	CEPB138A075-316C40P7.6LR					Revision: 0-2013	
	Mini PIEZOELECTRIC BUZZER						
DESCRIPTION			FEATURES				
Challenge Electronics Piezoelectric Buzzer, 13.8 mm Diameter, G style case, 7.5 mm High, 3-16 Vdc, Continuous Tone Medium Loud, 5 & 12 Vdc Nominal Voltage, 4,000 Hz Resonant Frequency, Minimum Sound Pressure Level at 90 dB(A) at 10 cm and 12 Vdc, PC Pins 7.6 mm Spacing, with Removable Washing Label, RoHS Compliant			<ul style="list-style-type: none"> • RoHS Compliant • ISO 9001 Certified 				
SPECIFICATIONS							
Alarm Type	Medium Loud, Continuous Tone			Pulse Rate			
Operating Voltage	3 - 16 Vdc	Nominal Voltage	5 and 12 Vdc	Resonant Frequency	4,000 ± 500 Hz.		
Sound Pressure Level	Minimum at 5 Vdc 80 dB(A), at 12 Vdc 90 dB(A) at: 10 cm, Nominal Voltage, 25°C						
Operating Current	at 5 Vdc 5 mA, at 12 Vdc 12 mA,						
Operating Temperature	-40°C to + 85°C	Storage Temperature	-40 °C to + 85°C				
Material	Housing	Plastic, PPO - SE1-GNF2 or equal, Black		Diaphragm	Brass		
	Encapsulation	Epoxy Potting					
	Termination	2 PC Pins, 0.7 mm Diameter, Plated Brass, Positive 5.5 mm Long, Negative 4.0 mm Long					
Physical Dimensions	Length/ Diameter (L /D)	13.8 mm ø	Width (W)	Height (H)	7.5 mm	Pin Spacing	7.6 mm
Approximate Weight	0.8 grams	Removable Washing Label	Yes	Compliance	RoHS		
Packaging							
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 +55°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 (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						



SOLDERING RECOMMENDATIONS	
This product should not be exposed to extremely high temperatures for prolonged time period. Excessive heat will degrade the internal structure of the unit, soldering should be conducted as quickly as possible	
Hand soldering With ABS, Hi-Temp ABS, FR ABS, or NYLON Plastic Case 300°C Thermal Iron	Wave soldering With NORYL, PBT, PPO, or PPS Plastic Case 256°C within 3 seconds 350°C within 1 seconds



- WASHING RECOMMENDATIONS**
- Parts with "Remove After Washing" Label, could be washed following the recommended Solvent Process
 - In view of the recent requirement for total elimination of ozone-depleting chemicals, we recommend: Cleaning solvent: Deionized Water; Solvent temperature: $55 \pm 5^\circ\text{C}$; Immersion time: 5 ± 0.5 minutes

PACKAGING		MARKING		TRAY	
ONE TRAY: 	TWO BUNDLE 	Bundle	Dimensions		X1 cm
		Part Number			Y1 cm
		Quantity			Z1 cm
		Lot and/or Date Code	Quantity		100
ONE BUNDLE: 	SHIPPING BOX 	Shipping Box	BUNDLE		
		Part Number	Dimensions		X2 cm
		Customer PN (if required)			Y2 cm
		Quantity			Z2 cm
		Lot and/or Date Code	Quantity		
		PO Number	SHIPPING BOX		
		Gross Weight	Dimensions		X3 51.5 cm
		Box Number of Boxes			Y3 42 cm
		Country of Origin			Z3 26 cm
			Number of Bundles		50
			Quantity		5,000
			Approximate Weight		
			Made in		China

Revision	Description	By:	Date: