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PRODUCT INFORMATION											
PART #		CEPB143N080-316C40MR									
	S	SMD PIEZOELECTRIC BUZZER									
DESCRIPT	ON:	FEATURES:									
Challenge Electronics Piezoelectric Buzzer, 14.3 mm diameter, N type case (Square with Standoffs, Cutout Corner, and TOP Sound Port), 8.0 mm Height, 3 to 16 Vdc operation, Continuous Tone, 4,000 Hz Resonant Frequency, with a minimum output of 85 dB(A) at, 5 Vdc, 10 cm, M SMD Termination, RoHS Lead Free compliant											
SPECIFICATIONS											
Sound Type Continuous Tone Sound Pressure Level 85 dB(A), at Nominal Rated Voltage, 10 cm											
Operating Voltage 3.0 - 16.0		Vdc Nominal Rated Voltage 5.0 Vdc Operating Curr									
Resonant Frequen		± 500 Hz.	± 500 Hz. Operating Temperature -30°C to + 85°C				Storage Temperature-40°C to + 90°C				
Material Ho				/ectra E130i, UL 94-V0 (UL #:E106764)				_	Alloy Disc N42		
Termin		• ·		ds, Brass Nickel (Sn) plated			ncapsulation	Еро	xy Potting		
Sound Port Direct		Гор	Case Standof		Yes		ovable Wash		bel No		
Physical Dimensio	_	Diameter (L /D)	14.3 mm Ø	Width (W)	14.3 mm	Heigh	nt (H) 8.0 mm		Pins Spacing		
Approximate Weig	ght 1.6	grams	Compliance				RoHS				
Options											
RELIABILIT	Y										
Thermal Operatin	g Temperature	96 hours conti	nuous operation a t	Rated Volt	age, at Maxir	num Ra	ted Operati	ing Te	mperature *		
Test		96 hours continuous operation at Rated Voltage, at Minimum Rated Operating Temperature *									
Thermal Storage Temperature		96 hours storage at Maximum Rated Storage Temperatures *									
Test		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 *					Minutes				
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 (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									
Operation Life Test	Continuous	240 hours of continuous operation, at Rated Voltage , each at Minimum & Maximum Rated Operating Temperatures									
		It One thousand (1,000) hours of: 1 minute ON 4 minutes OFF cycle, at Room Temperature, and Rated Voltage									
Warranty	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 repair							ation, rework, or attempt to			

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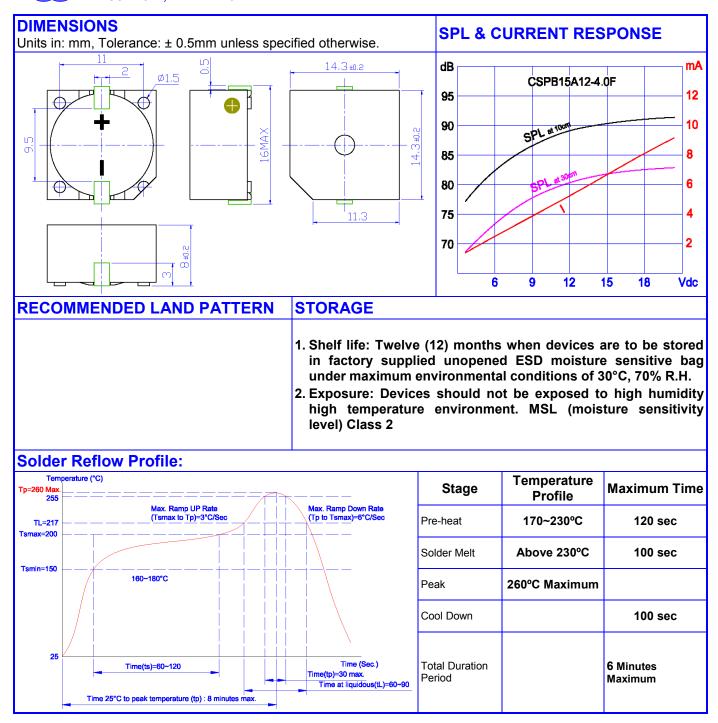
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10/29/2014

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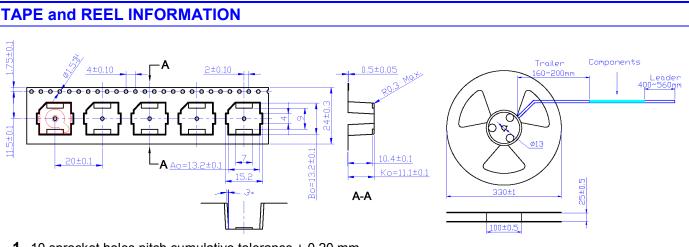
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- **1.** 10 sprocket holes pitch cumulative tolerance \pm 0.20 mm
- 2. Carrier camber not to exceed 1 mm in 100 mm
- 3. Ao & Bo measured on a place 0.3 mm above the bottom of the pocket
- 4. Ko measured from a plane on the inside bottom of pocket to the top surface of the carrier
- **5.** All dimensions meet EIA-481-2-A requirements
- 6. Component loaded 300 partsper 13" Reel

PACKAGING	MARKING	Reel		
	Bundle		X1	cm
	Customer PN	Dimensions	Y1	cm
	Quantity		Z1	cm
	Lot and/or Date Code	Quantity		300
	Bundle Number		Box	
	Shipping Box	Dimensions	X2	cm
	Customer Part Number		Y2	cm
	Other PN (if required)		Z2	cm
	Quantity	Quantity	_	
	Lot and/or Date Code	SHIPF	SHIPPING BOX	
	PO Number		X3	cm
	Net Weight	Dimensions	Y3	cm
	Gross Weighjt		Z3	cm
	Box Number	Number of Bund	Number of Bundles Quantity Approximate Weight	
	of Number of Boxes	Quantity		
	Made in China	Approximate W		

Revision	Description	Ву	Date
1-2014	Corrected Product Description (changed from electromagnetic to piezoelectric)	W.Sargent	2014-10-29

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