



PRODUCT INFORMATION

PART #	CE-CX516Z24W152	Revision: 0-2012
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	PIEZOELECTRIC BUZZER
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DESCRIPTION	FEATURES
Challenge Electronics Piezoelectric Buzzer, 24.0 mm Diameter, B style case (Octagon with Standoffs and Top Sound Port), 15.5 mm High, 5-16 Vdc, Continuous Tone Loud, 3,100 Hz Resonant Frequency, Sound Pressure Level 100±4 dB(A) at 16 V at 30 cm, Wire Leads 152 mm Long Termination, RoHS Compliant	<ul style="list-style-type: none"> ● RoHS Compliant ● ISO 9001 Certified

SPECIFICATIONS

Alarm Type	Loud, Continuous Tone			Pulse Rate				
Operating Voltage	5 - 16 Vdc	Nominal Voltage	12 Vdc	Resonant Frequency	3,100 ± 250 Hz.			
Sound Pressure Level	At Minimum Voltage	89 ± 5 dB(A), at: 5 Vdc, 11.8 inches (30cm), 25°C 83 ± 5 dB(A), at: 5 Vdc, 24.0 inches (61cm), 25°C						
	At Maximum Voltage	100 ± 4 dB(A), at: 16 Vdc, 11.8 inches (30cm), 25°C 94 ± 4 dB(A), at: 16 Vdc, 24.0 inches (61cm), 25°C						
Operating Current	At Minimum Voltage	5 mA at 5 Vdc		At Maximum Voltage	15 mA at 16 Vdc			
Operating Temperature	-40°C to + 85°C		Storage Temperature	-40 °C to + 85°C				
Material	Housing	Plastic, NORYL™ or equal or equal, Gray			Sound Port Opening	Top		
	Diaphragm	Brass			Encapsulation	PCB		
	Termination	Two (2) Wires Leads, 22 AWG (7X30), UL 1015, Stranded Tined Copper, Polyvinylchloride insulation, 6.0 (152.5) long. Struck 0.235 (6.0mm). Color coded: Red Positive and Black Negative						
Physical Dimensions	Length/ Diameter (L/D)	24.0 mm Ø	Width (W)		Height (H)	15.5 mm	Pin Spacing	
Approximate Weight	8 grams		Removable Washing Label	No	Compliance	RoHS		
Options								

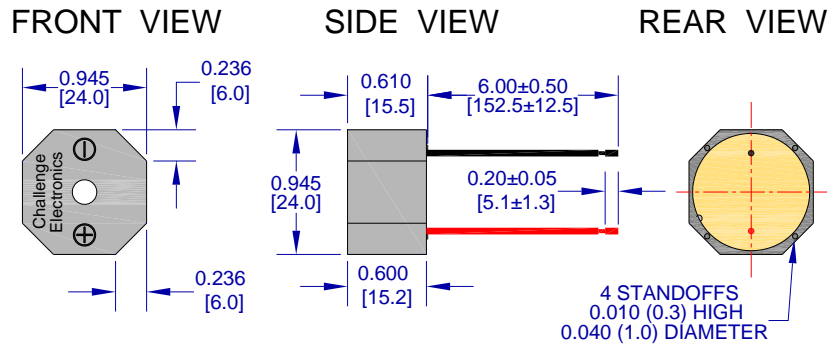
RELIABILITY

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	

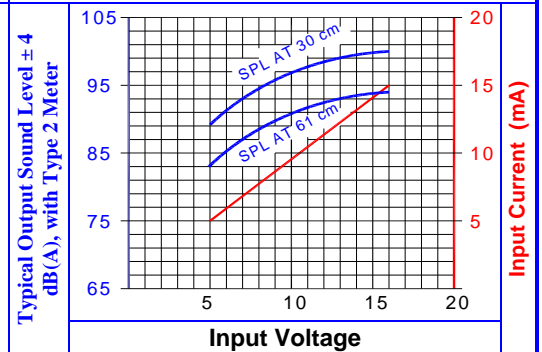
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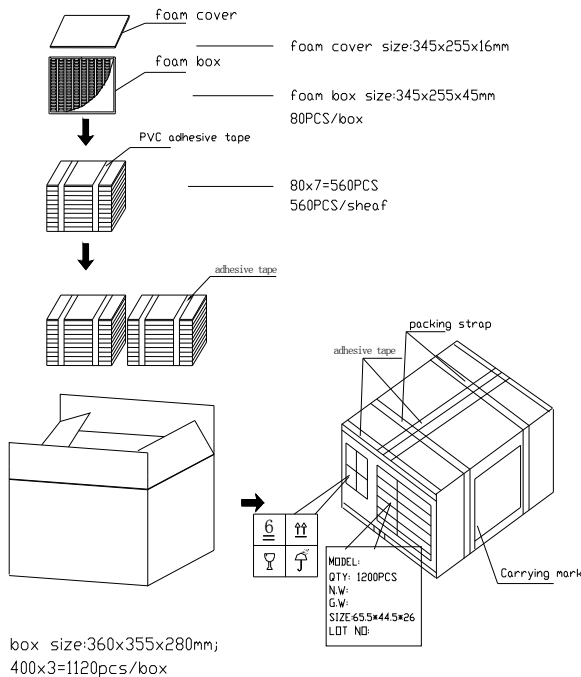
DIMENSIONS Units in: mm Tolerance: ± 0.5 mm



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	80	
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	36 cm
PO Number		Y3	35.5 cm
Net Weight		Z3	28 cm
Gross Weight	Number of Bundles		
Box Number	Quantity	1,120	
of Number of Boxes	Approximate Weight		
Made in China			