


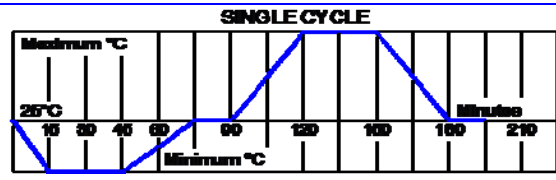


PRODUCT INFORMATION

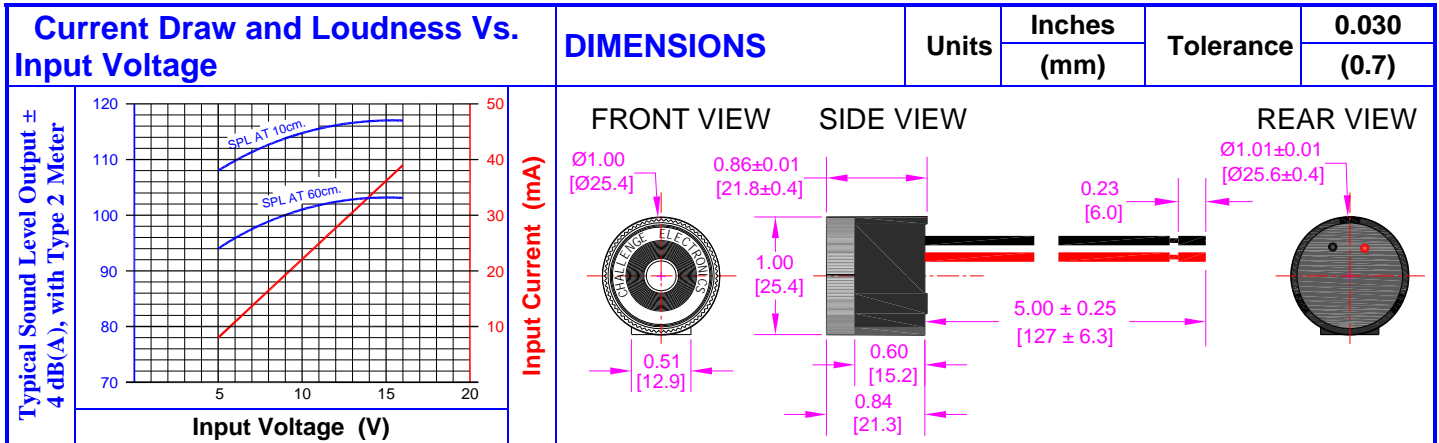
Part #: **CE-C80WIT**

Revision: 9-2015

Extra Loud Miniature Piezoelectric Alarm

DESCRIPTION		FEATURES	
Challenge Electronics CONTINUOUS Tone; EXTRA Loud; 5 to 16 Vdc; with a relatively low sound frequency of 2,900 Hz. ; M style Gray case; 25.1 mm Diameter, 22.2 mm High; Sound Pressure Level of 102 dB(A) at 12 Vdc and 61 cm; Wire leads color coded, 18 AWG, 5.0" long termination; with R False-Sounds and T ransients Spike prevention: RoHS Compliant; Miniature Piezoelectric Alarm		<ul style="list-style-type: none"> ◆ Reliable Solid State Piezoelectric Technology ◆ Corrosion resistant Stainless Steel Diaphragm ◆ Flame Retardant Plastic ◆ Extended Storage Temperature ◆ Hermetically Sealed Alarm ◆ Water Proof, NEMA 3R, 4X, or 12 ◆ RoHS, Lead Free Compliance ◆ ISO 9001:2008; ISO-TS 16949:2009 Certified 	
SPECIFICATIONS			
Operating Mode	Extra Loud, Continuous Tone		Pulse Rate
Operating Voltage	5 to 16 Vdc	Nominal Operating Voltage	12 Vdc
	At 5 Vdc	At 12 Vdc	At 16 Vdc
Typical Loudness	94 ± 5 dB(A)	102 ± 4 dB(A)	103 ± 3 dB(A)
SPL is measured at 24 inches (61 cm), 25°C, Sound Level meter # 2240, Type 2, Fast Response, A-Weighted			
Typical Operating Current	8 mA at 5 Vdc		40 mA at 16 Vdc
Operating Temperature	-30°C to +65°C	Storage Temperature	-40°C to +100°C
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes		
Polarity Protection	Protected against Reversed Voltage to the Maximum Operating Voltage		
Galvanic Corrosion Prevention	The diaphragm electrically insulated to prevent dc current flow between the diaphragm and the negative or positive inputs causing Galvanic Corrosion		
Transients Spike Protection	Must withstand 1000 V 600 W, spike. Per EN 50081-1, EN 50082-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EVN 50204, and SAE J1128		
Materials	Alarm Case	Plastic, "M" style Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Gray	
	Diaphragm	Stainless Steel 304	Sound Port Single opening Top Side
	Encapsulation	Silicon Potting covering SMD components topped with 2 parts epoxy potting, Black	
	Termination	Two (2) Wires Leads, 18 AWG (16X30), -40°C to 125°C, GXL Automotive, Copper, XPLE insulated, SAE J1128, 5.0" (127 mm) long, Struck 0.235 (6.0 mm). Color coded: Red Positive and Black Negative	
Physical Dimensions	Diameter (D)	1.00" (25.4 mm) ø	Height (H) 0.86" (21.8 mm)
Approximate Weight	13.5 grams	Removable Washing Label No	Compliance RoHS, Lead Free, REACH
RELIABILITY			
Thermal Operating Temperature Test	96 hours continuous operation at Rated Power , at Maximum Rated Operating Temperature *		
	96 hours continuous operation at Rated Power , 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 below and is 3 hours long *		
Humidity Test	120 Hours at +60°C±2°C, 90-95% RH *		
Salt Spray	Withstand exposure to salt spray per ASTM B117 for a period of 300 hours *		
Water & Dust Exposure	Withstands water submergence and dust exposure per IP-68 *		
Vibration Test	2 Hours at 1.5 mm with 10 to 55 Hz. of vibration frequency to each of 3 perpendicular direction *		
Drop Test	Dropped naturally from 1 meter height onto the surface of 10mm wooden board, 2 directions upper and side of the part are applied *		
Termination Strength	Maximum of 15 pounds (6.8 Kg) load pull test		
* Reliability Test Performance	Parts should conform to original performance within ±3dB, after 3 hours of recovery and dry period		
Life Test	Intermittent	1,000 hours, of a 1 minute on 4 minutes off cycle at room temperature and maximum Operating Voltage	
	Continuous	250 hours continuous operation at maximum Operating Voltage and maximum Operating Temperatures	
Warranty	For a period of two (2) years 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		

The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed. Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.



ALARM MARKING		
On Case side:	Part Number Sound Type Operating Voltage Range / Date Code Made in China	Note: Date Code consists of 2 Digits for year number and 2 Digits for week of production, Last Digit for day of the week

SUBSTANCE OF VERY HIGH CONCERN (REACH) and RoHS LEAD FREE COMPLIANCE

This product does NOT contain any of the REACH Substances of Very High Concern (SVHC), and is in compliance with European Union REACH Regulation No.1907/2006 regarding chemical substances which must be registered or disclosed.

Cadmium (Cd) / Cadmium Compounds	≤ 100 ppm	In compliance	Poly Brominated Biphenyls (PBB)	≤ 1,000 ppm	In compliance
Lead (Pb) / Lead Compounds	≤ 1,000 ppm	≤ 10,000 ppm (*)	Poly Brominated Diphenyl Ethers (PBDE)	≤ 1,000 ppm	In compliance
Mercury (Hg) / Mercury Compounds	≤ 1,000 ppm	In compliance	Arsenic (As)	≤ 1,000 ppm	In compliance
Hexavalent-Chromium (Cr6+)	≤ 1,000 ppm	In compliance			

(*) European Union Directive 2011/65/EU (RoHS Directive) of the European Parliament. And of the Council of 8 June 2011 and all subsequent amendments, The ANNEX III of the Directive Applications exempted from the restriction in Article 4(1): 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. Piezoelectric devices, or in a glass or ceramic matrix compound Piezoelectric is also known as Lead Zirconate Titanate (PZT) ceramics. Piezoelectric Ceramic disc, (PZT), lead as high covalent compound in the ceramic matrix to achieve good ferroelectric properties in a wide temperature range. The best-known performances can be reached with PZT ceramics, which are a mixture of PbTiO3 and PbZrO3. The lead content, homogeneous material compound is between 58% and 68% by weight depending on the proportion of zirconium (Zr) and titanium (Ti).

PACKAGING		Shipping Box MARKING	TRAY	
		Part Number	Dimensions	L
		Other PN (if required)		W
		Lot and/or Date Code		H
		Quantity	Individually packed in Plastic Bag	
PO Number		SHIPPING BOX		
Net Weight	Carrier Documents	Dimensions	L	35 cm
Gross Weight			W	35 cm
Box Number of Boxes			H	18 cm
Made in China				
		Quantity	500	
		Approximate Weight	9 Kg.	

Revision	Description	By	Date
6-2013	Updated Specifications Format	Ely Zofan	4/10/2013
7-2013	Added parameters at Nominal Voltage	Ely Zofan	6/4/2013
8-2014	Modified the SPL Specification Format	Ely Zofan	3/19/2014
9-2015	Added SubstanceE of Very High Concern & RoHS Compliance, and Extended the waranty period	Ely Zofan	1/13/2015