



Part Number:

CE-CU515EW

Revision: 0-2015

Challenge Electronics CONTINUOUS Tone, ULTRA Loud; 5 to 15 Vdc; E style Round with PCB Standoffs mounting case; Sound Pressure Level of 107 dB(A) at 15 Vdc at 61 cm; 2,600 Hz. Output Frequency; Wire Leads 5" Long termination; Piezoelectric Alarm

Specifications

NEW Round Case IP67 Very Loud and Low Frequency Piezoelectric Alarm

Operating Mode	Ultra Loud, Continuous Tone	Operating Voltage Range	5-15 Vdc	Nominal	12 Vdc	
Operating Frequency	2,600 ± 250 Hz.		Pulse Rate			
Typical Loudness	At 5 Vdc	95 ± 5 dB(A)	At 12 Vdc	105 ± 4 dB(A)	At 15 Vdc	107 ± 4 dB(A)
Operating Current	33 mA at 5 Vdc		65 mA at 12Vdc		81 mA at 15 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					

Features

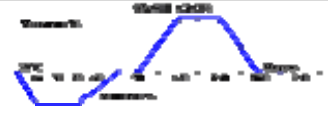
- ◆ Reliable Solid State Piezoelectric Technology
- ◆ Corrosion resistant Stainless Steel Diaphragm
- ◆ Flame Retardant Plastic
- ◆ Extended storage temperature
- ◆ Hermetically Sealed Alarm
- ◆ Reliable Piezoelectric Technology
- ◆ Polarity and Voltage Surge Protected
- ◆ IP-67
- ◆ Water and Dust Proof, NEMA 3R, 4X, or 12
- ◆ RoHS, Lead Free, and REACH Compliance
- ◆ ISO 9001:2008 & ISO-TS 16949:2009 Certified

Materials

Alarm Case	Plastic, "E" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black
Diaphragm	Stainless Steel 304
Encapsulation	Silicon Potting covering SMD components topped with 2 parts epoxy potting, Black
Termination	Two (2) Wires Leads, 18 AWG (7X32), GXL Automotive, Copper, XPLE insulated, 5.0 (127) long. Struck 0.235 (6.0mm), Red and Black

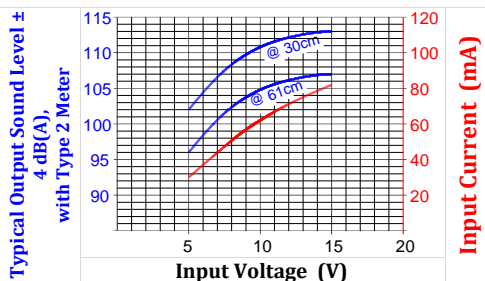
Reliability

Thermal Operating Temperature Test	96 hours continuous operation at Rated Voltage, at Maximum Rated Operating Temperature *
Thermal Storage Temperature Test	96 hours storage at Maximum 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 *



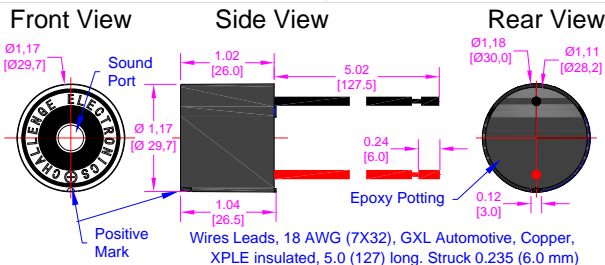
Humidity Test	120 Hours at +60°C±2°C. 90-95% RH *
Salt Spray	Withstand exposure to salt spray per ASTM B117 for a period of 300 hours *
Water & Dust Exposure	Withstands water submergence and dust exposure per IP-67 *
Vibration Test	Withstand 2 Hours of Sweeping 10 to 55 Hz. Vibration Frequency and Vibration Amplitude of 1.5 mm, in each of 3 perpendicular directions *
Drop Test	Withstand 300 Hours of Continuous Reciprocating Vibrations, Vibration Range of 1.0" (25.4 mm) P-P and Vibration Frequency of 5 Hz. (300 rpm) *
Termination Strength	Dropped naturally from 1 meter height onto the surface of 10mm wooden board, 2 directions upper and side of the part are applied *
Life Test	Maximum of 15 pounds (6.8 Kg) load pull test and of 4 lb. per inch driving torque on screw
Warranty	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 room temperature and maximum rated Voltage

Current Draw and Loudness Vs. Input Voltage



Dimensions

Dimensions are in: Inches/(mm), Tolerance: ±0.025"/(±0.6 mm)



Part Marking

Challenge Electronics
Part Number
Sound Type
Operating V / Date Code
Made in China

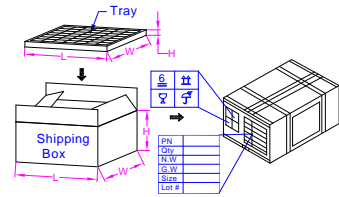
Substance Of Very High Concern (REACH) and RoHS Lead Free Compliance

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

(*) 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 ceramic matrix compound Piezoelectric is also known as Lead Zirconate Titanate (PZT) ceramics. Lead content, homogeneous material compound is between 58% and 68% by weight depending on the proportion of zirconium (Zr) and titanium (Ti)

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

Packaging



Box Marking	Tray	Revisions	Description	Date
Part Number	Dimensions	Revision		
Other PN (if required)	L			
Lot and/or Date Code	W			
Quantity	cm			
PO Number	50			
Net Weight	Shipping Box			
Gross Weight	L			
Box _ of _	W			
Made in China	H			
	cm			
	Number of Trays			
	5			
	Quantity			
	250			
	Approximate Weight			
	Kg.			