

1-800-722-8197 1-631-595-2217

EMAIL: Sales@ChallElec.com WEB: www.ChallengeElectronics.com

Fax: 1-631-667-5484 ISO 9001:2008; ISO-TS 16949:2009 Certified



Revision: 2-2015



DESCRIPTION

Challenge Electronics Dual Function BEEP or

◆ Reliable Solid State Piezoelectric Technology CONTINUOUS Tone; EXTRA Loud Piezoelectric Corrosion resistant Stainless Steel Diaphragm Alarm; 5 to 15 Vdc; A style Rear Panel Mount case; ◆ Flame Retardant Plastic Sound Pressure Level of 103 dB(A) at 15 Vdc at 61 cm; 2,900 Hz. Output Frequency; Wire Leads 5" Long Hermetically Sealed Alarm termination; Fast Beep, 3 pulses per second Rate; **RoHS** Compliant

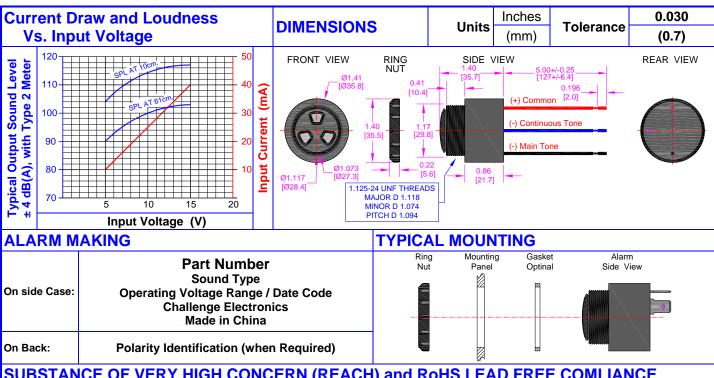
FEATURES

- ♦ Extended storage temperature
- Water Proof, NEMA 3R, 4X, or 12 with Gasket (not supplied)
- **RoHS, Lead Free Compliance**
- ◆ ISO 9001:2008 & ISO-TS 16949:2009 Certified



		♦ RoHS, Lead Free Compliance								
SPECIF	ICATIONS									
Operating N	Iode	Extra Loud, Fast Intermittent or Continuous Tones Pulse Rate 3 ± 10% Pulses per Second								
Operating Voltage		5 to 15 Vdc Nominal Operating Voltage 12 Vdc Operating Frequency 2,900 ± 500 Hz.								
Typical Lou	dnoss	At 5 Vdc 90 ± 5 dB(A) At 212Vdc 102 ± 4 dB(A) At 15 Vdc 103 ± 3 dB(A)								
1 ypicai Lou	uness	SPL is measured at 24" (61 cm), 25°C, Sound Level meter # 2240, Type 2, Fast Response, A-Weighted								
Typical Ope	rating Current	10 mA at 5 Vdc 35 mA at 12 Vdc 40 mA at 15 Vdc								
Operating T	emperature	-30°C to +65°C Storage Temperature -40°C to +100°C								
Surge Volta	ge	20% over maximum Operating Voltage for less than 5 minutes								
Polarity Protection		rotected against Reversed Voltage to the Maximum Operating Voltage								
	Alarm Case									
	Diaphragm	nless Steel 304								
Materials	Encapsulation	on Potting covering SMD components topped with 2 parts epoxy potting, Black								
	Termination	ee (3) Wires Leads, 18 AWG (7X32), GXL Automotive, Copper, XPLE insulated, 5.0" (127) Long. Struck 0.235 (mm), Red = Common Positive Black = Intermittent Negative, and Blue = Continuous Negative								
Physical Dir	nensions	Diameter 1.41" (35.8 mm) Ø Width Height 1.4" (35.7 mm)								
Panel Moun	ting	From the Rear with Plastic Ring Nut Mounting Hole 1.125" (28.6mm) Ø Max. Panel Thickness 0.25" (6.3 mm								
Approximat	e Weight	37 grams With Rotor Volume Control No Compliance RoHS								
Available O	ptions	Rotor Volume Control, Water Proof Gasket, Mounting Bracket, and variety of connectors terminated on the Willead ends								
RELIAE	BILITY									
Thermal Op	erating Tempera	ature 96 hours continuous operation at Rated Voltage, at Maximum Rated Operating Temperature *								
Test		96 hours continuous operation at Rated Voltage, at Minimum Rated Operating Temperature *								
Thermal Sto	rage Temperatu	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 3 hours long * SINGLE CYCLE Laminum C Minute 237C Library C Library C Library C Library C Library C								
Humidity To	est	120 Hours at +60°C±2°C. 90-95% RH *								
Salt Spray		Withstand 300 hours of exposure to salt spray per ASTM B117 *								
Water & Dust Exposure		Withstands 50 cm 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 10 mm wooden board, 2 directions upper and side of the part are applied *								
Termination Strength		Maximum of 15 pounds (6.8 Kg) load pull test								
Termination										
	ty Test Performs	Parts should conform to original performance within ±3 dB, after 3 hours of recovery and dry period								
	ty Test Performa									
	Intermi	Parts should conform to original performance within ±3 dB, after 3 hours of recovery and dry period ittent 1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated Voltage 250 hours continuous operation at room temperature and maximum rated Voltage								

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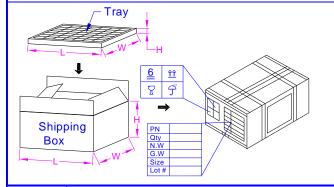
SUBSTANCE OF VERY HIGH CONCERN (REACH) and RoHS LEAD FREE COMLIANCE

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		L	34.7 cm		
Other PN (if required)	Dimensions	W	34.7 cm		
Lot and/or Date Code		Н	21.2 cm		
Quantity	Quantity		47		
PO Number	SH	IIPPIN	IG BOX		
Net Weight		L	35 cm		
Gross Weighjt	Dimensions	W	35 cm		
Box Number of Boxes	mber of Boxes		22.5 cm		
Made in China	Number of Tra	Number of Trays			
	Quantity	Quantity			
	Approximate W	Approximate Weight			

Revision	Description	Ву	Date
1-2014	Added Polarity Protection to specifications	Ely Zofan	7/9/2014
2-2015	Added SubstanceE of Very High Concern & RoHS Compliance, and Extended the waranty period	Ely Zofan	1/14/2015