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







DESCRIPTION

SPECIFICATIONS

Challenge Electronics Dual-Function BEEPING or CONTINUOUS Tones, EXTRA Loud, 5 to 15 Vdc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 103 dB(A) at 15 Vdc at 61 cm, 2,900 Hz. Output Frequency, three Quick Connect Blades termination, Slow Rate 1 pulse per second, Piezoelectric Alarm, RoHS Compliant

FEATURES

- ♦ 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 with Gasket (not supplied)
- **RoHS, Lead Free Compliance**
- ISO 9001:2008 & ISO-TS 16949:2009 Certified

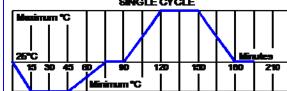


Operating N	Operating Mode		Extra Loud, Slow Intermittent or Conti			uous Tone	Pulse I	Rate 1 ± 10	1 ± 10% Pulse per Second		
Operating Voltage		5 to 15 Vdc Nominal Operating V		oltage 1	12 Vdc Operating Frequency		ncy	2,900 ± 500 Hz.			
Typical Loudness		At 5 Vdc	9	90 ± 5 dB(A)	At 12 \	/dc 1	02 ± 4 dB(A)	At 15 Vdc	103 ± 3 dB(A)		
		SPL is measured at 24" (61 cm), 25°C, Sound Level meter # 2240, Type 2, Fast Response, A-Weighted									
Typical Ope	erating Current	•	10 mA a	at 5 Vdc		35 mA a	12 Vdc	4	I0 mA at 15 Vdc		
Operating T	Temperature	-30°C to +	-65°C	Storage Temperatu	re -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									
	Alarm Case	Plastic, "A" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black									
Matariala	Diaphragm	Stainless Steel 304									
Materials	Encapsulation	Silicon Potting covering SMD components topped with 2 parts epoxy potting, Black									
	Termination	Three, 0.25 (6.4 mm) Quick Disconnect Blades, 0.032Ø (0.8Ø mm) wide, Brass, Electro-Tin plated									
Physical Din	Physical Dimensions		Diamete	r (L /D) 1.41" (35.8	3 mm) Ø	Width (V	V)	Height (H) 1.4" (35.7 mm)		
Approximate Weight		35 gran	ทร	With Volume Cont	rol Roto	No	Compliance		RoHS		
Available Options		Rotor Volume Control, Water Proof Gasket, Mounting Bracket, and variety of connectors terminated on the Wire									
		Lead ends									

RELIABILITY

		SINGLE CYCLE
Test	96 hours storage at Minimum Rated Storage Tempo	eratures *
Thermal Storage Temperature	96 hours storage at Maximum Rated Storage Temp	peratures *
Temperature Test	96 hours continuous operation at Rated Power, at M	linimum Rated Operating Temperature *
Thermal Operating	96 hours continuous operation at Rated Power, at M	laximum Rated Operating Temperature *

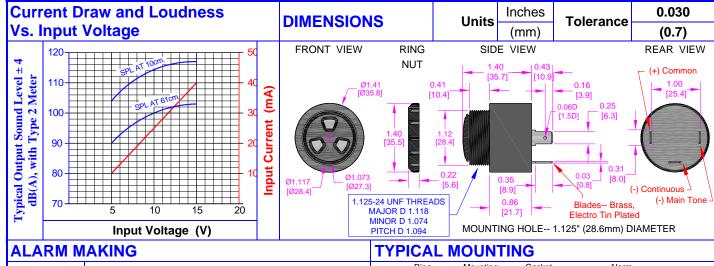




Humidity To	est	120 Hours at +60°C±2°C, 90-95% RH *					
Salt Spray		Withstand 300 hours of exposure to salt spray per ASTM B117 *					
Water & Du	st Exposure	Withstands 50 cm of Water Submergence and Dust Exposure per IP-68 *					
Vibration To	est	2 Hours at 1.5 mm with 10 to 55 Hz. of vibration frequency 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					
* Reliabili	ty 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 rated Voltage					
Lue Test		250 hours continuous operation at room temperature and maximum rated Voltage					
Warranty		(2) years from date of shipping under normal operations conditions not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair					

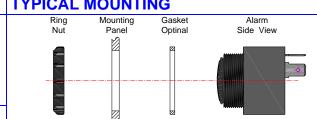
1-800-722-8197 1-631-595-2217 Fax: 1-631-667-5484

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Part Number Sound Type Operating Voltage Range / Date Code **Challenge Electronics** Made in China

On Back: Polarity Identification (when Required)



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

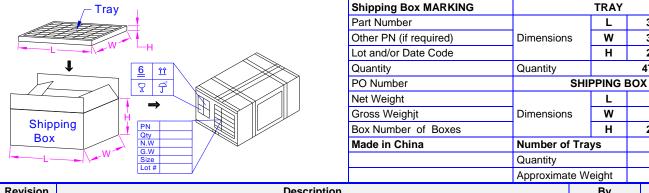
This product does NOT contain any of the REACH Substances of Very High Concern (SVHC), and is in compliance with European Union REACH Regulation No.1907/2006 regarding chemical substances which must be registered or disclosed.

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

On side Case:



Revision	Description	Бу	Date
1-2007	Updated Specifications	Ely Zofan	1/30/2007
2-2010	Changed formate	Ely Zofan	9/21/2010
3-2012	Modified the Sound Pressure Specifications	Ely Zofan	5/14/2012
4-2015	Added SubstanceE of Very High Concern & RoHS Compliance, and Extended the waranty period	Ely Zofan	1/14/2015

TRAY

W

Н

L

W

34.7 cm

34.7 cm

21.2 cm

35 cm

35 cm

22.5 cm

5

250

9 Kg.

47