Œ	• Challeng 95 East Je • Deer Park,	ge E fryn I NY 1	Electron Boulevard 11729	ics Tel: Fax:	1-631- 1-631-	722-8197 595-2217 667-5484 IFOR	WEB ISO 9001		ngeElec		
COMPLI	Free IS ANCE		Par	t #:		C80W			Revis	ion: 3-2017	
		E	xtra Lo	oud Minia	ature	Piezc	electri	c Alarm			
DESCR	RIPTION				FEA	TURES					
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, 3.0" long termination; RoHS Compliant; Miniature Piezoelectric Alarm					 Reli Cor Flar Extent Herri Wat Rol 	 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 					
Operating 1		, 	Extra L	oud, Continuous	Tone	Puls	se Rate				
Operating '		5 to		Nominal Operating			Operating Free	quency	2,900	± 250 Hz.	
					12 Vdc		4 dB(A)	At 16 Vdc	,	03 ± 3 dB(A)	
Typical Lo	udness	SPL i	s measured	at 24 inches (61 c	m), 25°C	, Sound Lev	el meter # 224	I0, Type 2, Fast	Respons	se, A-Weighted	
Typical Operating Current			10 mA at 5 Vdc			30 mA at 1	4	16 Vdc			
-F8F			°C to +65°C	Storage Tempera		-40°C to +10	-				
Surge Volta	-			um Operating Vol	-						
Polarity Pr			-	t Reversed Voltag			-	-			
Diaphragm Stain Materials Encapsulation Silico Terminetian Two			iic, "M" style Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Gray less Steel 304 Sound Port Single opening Top Side on Potting covering SMD components topped with 2 parts epoxy potting, Black (2) Wires Leads, 18 AWG (16X30), -40°C to 125°C, GXL Automotive, Copper, XPLE insulated, SAE J1128, (76.2 mm) long, Struck 0.235 (6.0 mm). Color coded: Red Positive and Black Negative								
Physical Dimensions D		Dia	ameter (D)	1.00" (25.4 mm)Ø	Height (H)		Heig	ht (H)	0.86" (21.8 mm)	
Approxima	Approximate Weight 1		2.4 grams Removable Was		shing Lal	Ŭ Î		RoHS	RoHS, Lead Free, RI		
Available C	Options	Galva	anic Corrosi	on Protection, Tra	nsient S	pike Protecti	ion, Falls Alar	m Sound, Term	ination L	ength, Connectors	
RELIA	BILITY										
	perating Tempera	ature	96 hours continuous operation at Rated Power, at Maximum Rated Operating Temperature *								
Test			96 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *								
	Thermal Storage Temperature			torage at Maximur			-				
Test Thermal Shock Test			96 hours storage at Minimum Rated Storage Temperatures * 5 cycles of Minimum and Maximum Operating Temperature Each cycle shell be set per diagram below and is 3 hours long * SINGLE CYCLE								
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 Drop Test			2 Hours at 1.5 mm with 10 to 55 Hz. of vibration frequency to each of 3 perpendicular direction * Dropped naturally from 1 meter height onto the surface of 10mm wooden board, 2 directions upper and side of the part are applied *								
Terminatio	n Strength		Maximum of 15 pounds (6.8 Kg) load pull test								
* Reliabil	ity Test Performa			d conform to orig	•						
Life Test	Interm	ittent	1,000 hours, of a 1 minute on 4 minutes off cycle at room temperature and maximum Operating Voltage								
Life Test			250 hours continuous operation at maximum Operating Voltage and maximum Operating Temperatures								
Warranty				n date of shipping u roducts damaged th				allation, alteration	n, 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.

CE-EG-04.400PA, Piezoelectric Alarm Specifications

95 E Dee	allenge Electro East Jefryn Bouleva r Park, NY 11729	ard	Tel: 1-800-72 1-631-59 Fax: 1-631-66	5-2217		w.Challe	@ChallElec ngeElectro S 16949:2	nics.	
Current Draw and Loudness Vs. DIMENSION				IS	Units	Inches (mm)	Toleran	nce	0.030 (0.7)
Typical Sound Level Output ± 4 dB(A), with Type 2 Meter 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 10 15 Input Voltage (V)	50 40 30 20 10 10 20	10005 41	W SIDE V 6±0.01 .8±0.4] 1.00 [25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (25.4] (21.3]	3.0	$\begin{array}{c} 0.23 \\ [6.0] \\ \hline \\ 00 \pm 0.25 \\ 5.2 \pm 6.3 \end{array}$	Ø1.0	REAI 1±0.01 5.6±0.4]	R VIEW
ALARM MA On Case side	Pa	Note: Date Code consists of 2 Digits for year number and 2 Digits for week of production, Last Digit for day of the week							
Cadmium (Cd) / C Lead (Pb) / Lead (Mercury (Hg) / Me Hexavalent-Chron (*) European Union 1	rcury Compounds	≤ 100 ppm ≤1,000 ppm ≤1,000 ppm ≤1,000 ppm Directive) of the D	In compliance ≤ 10,000 ppm (*) In compliance In compliance European Parliament. An	Poly Brominated Poly Brominated Arsenic (As) d of the Council of 8	Biphenyls (PB Diphenyl Ether	B) rs (PBDE)	≤1,000 ppm ≤1,000 ppm ≤1,000 ppm	In c	ompliance ompliance ompliance
capacitors, e.g. P (PZT), lead as hig	iezoelectric devices, or in a gla gh covalent compound in the ce hich are a mixture of PbTiO3 a	ss or ceramic ma eramic matrix to a	trix compound Piezoelect achieve good ferroelectric	tric is also known as properties in a wide t	Lead Zirconate T temperature range	in a glass or itanate (PZT . The best-kn	ceramic other that ceramics. Piezo own performance	n dielec belectric es can b	tric ceramic in Ceramic disc e reached with
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capacitors, e.g. P (PZT), lead as hig PZT ceramics, w zirconium (Zr) ar	iezoelectric devices, or in a gla gh covalent compound in the ce hich are a mixture of PbTiO3 a d titanium (Ti).	sss or ceramic ma ramic matrix to a and PbZrO3. The	trix compound Piezoelect achieve good ferroelectric	Shipping I Part Number Other PN (ii Lot and/or I Quantity PO Number	Lead Zirconate T temperature range d is between 58% Box MARKING er f required) Date Code	in a glass or itanate (PZT . The best-kn and 68% by G Dimen	ceramic other tha) ceramics. Pieze own performance weight dependin TRA	n dielec belectric es can b ag on the XY L W H d in Pl	tric ceramic in Ceramic disc e reached with e proportion o astic Bag
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capacitors, e.g. P (PZT), lead as hig PZT ceramics, w zirconium (Zr) ar PACKAGIN	iezoelectric devices, or in a gla gh covalent compound in the ce hich are a mixture of PbTiO3 a d titanium (Ti). G 30 cm 29 cm MODEL: 0 QTY: 5 N.W: G.W:	ss or ceramic ma ramic matrix to a and PbZrO3. The <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	trix compound Piezoelect achieve good ferroelectric	Shipping I Part Number Other PN (it Lot and/or I Quantity PO Number Net Weight Gross Weig	Lead Zirconate T temperature range d is between 58% Box MARKING er f required) Date Code r ht er of Boxes	in a glass or of itanate (PZT). The best-kn and 68% by	ceramic other tha) ceramics. Pieze iown performance weight dependin TRA sions dually packee SHIPPIN sions ty	un dielecc pelectric es can b gg on the L W H G BOJ L W H	astic Bag (35 cm 35 cm 18 cm
capacitors, e.g. P (PZT), lead as his PZT ceramics, w zirconium (Zr) ar PACKAGIN 39 cm 39 cm 1-2014 Modifi 2-2015 Added	iezoelectric devices, or in a gla covalent compound in the centric devices, or in a gla the covalent compound in the centric devices, or in a gla the covalent compound in the centric devices, or in a gla and titanium (Ti). G 30 cm 29 cm MODEL: 0 QTY: 5 SIZE: 5	ss or ceramic ma ramic matrix to a and PbZrO3. The	trix compound Piezoelect ichieve good ferroelectric lead content, homogeneo Carrier Documents Description HS Compliance, and E	Shipping I Part Number Other PN (ii) Lot and/or I Quantity PO Number Net Weight Gross Weig Box Number Made in Ch	Lead Zirconate T temperature range d is between 58% Box MARKING er f required) Date Code r ght er of Boxes hina	in a glass or of itanate (PZT). The best-kn and 68% by	ceramic other tha) ceramics. Pieze iown performance weight dependin TRA sions dually packed SHIPPIN sions ty cimate Weight Ely z Ely z	un dielecc pelectric es can b gg on the L W H G BOJ L W H	astic Bag (35 cm 35 cm 18 cm

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