Challenge Electronics 95 East Jefryn Boulevard Deer Park, NY 11729			Tel: 1-800-722-8197 1-631-595-2217 Fax: 1-631-667-5484					El WEB:	MAIL: <u>Sal</u> www.Cha ISO 900	es@ChallE IllengeElec 1:2008Cert	<u>@ChallElec.com</u> engeElectronics.com 2008Certified					
				PR	ODUC	T	INF	OF	RM/	ATI(ON					
		7 P/	ART #	ART #CEPB430X435-428A29SRPIEZOELECTRIC BUZZER							Revision	Revision: 0-2017				
		2														
DESC	RIPTION				F					TURE	S			R		
Challenge Electronics Piezoelectric Buzzer; 43.0 mm Diameter; X style, Round with Flange screw mounting case; 43.5 mm High; 4 - 28 Vdc Operating Voltage; Slow Pulse Tone (A); Resonant Frequency 2900 Hz; Minimum Sound Pressure Level at 88 dB(A) at 10 cm and Nominal Voltage; Blade w/Screw Termination; RoHS Compliant																
REAC	H DECLA	RAT	TION CO	OMPL	IANCE											
The Piezoelectric-Ceramic-Disc article contains more than 0.1% (w/w) of REACH Candidate List SVHC Lead-Zirconium-Titanium-Oxide (CAS 12626-81-2), which is a key ingredient of the Piezoelectric-Ceramic-Disc in the Alarm operation. See section Substance Of Very High Concern and RoHS Compliance, page # 2, for full details.																
SPECI	FICATIO	NS	01-		-					0000 1			D (
Alarm Ty	pe Voltago		Slow Pulse		Ione Nominal Volt	S	Sound Frequency		2900 ± 50		500 HZ.	Cycle	Rate			
Sound Pre	ssure Level	Minim	$\frac{4 - 26 \text{ Vuc}}{\text{mum 88 dB(A)}} \text{ at 10 cm}$		cm	age										
Operating	Current	Max. 6	6 mA at No	m. Volta	ae											
Surge Vol	tage				.J-											
Operating	Temperature	-:	20°C to +6	0°C	Storage Ten	nperati	ure	-30°C	C to +70	°C						
<u> </u>	Housing	Plastic	c, ABS Bla	ick							Sound Port Opening Top					
Material	Diaphragm	Brass									Epox	у				
	Termination	Blade	with Screw	ws												
Physical D	imensions	Diar	meter 43.	0 mm Ø	Height	43.5	mm									
Approxim	ate Weight		43 grams		Removable W	ashing	, Label	No	Compl	iance	RoHS, L	ead Free, and	REACH (SVH	IC)		
Options																
RELIA	BILITY *	Reliabi	ility Test P	erforma	nce After 3 hou	rs coo	oling tin	ne, Part	s shoul	d confor	m within ±	3 dB(A) to orig	ginal performation	ance		
Thermal C	Operating		96 hours	continuc	us operation at	Rated	Voltage	e, at Ma	aximum	Operati	ng Tempera	iture *				
Temperat	ure Test		96 hours continuous operation at Rated Voltage, at Minimum Operating Temperature *													
Thermal S	storage Tempe	rature	96 hours	storage	at Maximum S	torage	e Tempe	eratures	s *							
Test			96 hours	storage	at Minimum Sto	orage	Tempe	ratures	*							
Thermal Shock Test		5 cycles of Minimum and Maximum Operating Temperature Each cycle shell be set per diagram below and is three (3) hours long. Make sure to limit temperature range to specifications listed above *							I5							
Humidity Test 120				20 Hours at +60±2°C 90-95% RH *												
Insulation Test A minimum Transduce				inimum of 10 MΩ, measured with 100 Vdc Insulation Resistance Meter, between the Electrical Terminals and the nsducer Case												
Vibration Test2 Hours of at 1.			of at 1.5 i	at 1.5 mm with 10 to 55 Hz. vibration frequency to each of 3 perpendicular directions *												
Termination Strength Maxim			Maximum	laximum of 9.8 N (1.0 Kg) load pull test, applied to each terminal in axial direction for 10 seconds												
Drop Test			Dropped naturally from 750 mm height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times (6 times total) *													
Solderability			Lead terminals are immersed in rosin for 5 seconds then immersed in solder with Solder-Iron 350±5°C for 3±0.5 seconds													
Life Test Intermitter			1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated voltage													
	Con	tinuous	250 hours	s continu	ous operation at	maxin	num rat	ed Volt	age and	maxim	um Operatii	ng Temperatu	res			
Warranty	Varranty For a period of one (1) year 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															

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DIMENSIONS Units in: mm_Tolerance: ±0.5 mmASSEMBLY														
POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING POTTING SCREW														
Standard SPL &	Current Meas	urement Pro	ocess				MATE	MATERIALS						
$ \begin{array}{c} X = 10 \text{ cm} \\ Y = 40 \text{ cm} \end{array} $							7 6 5	Potting Screw Quoit		1	Epoxy Fe Black ABS Black ABS			
	₫ II	Measured Distance		C ^{urrel} mA	Meter		4	Housi	ng nin	1 ว	Brass			
Sou			, e		Л		2	Diezo	olomont	2 1	Brass			
Met	er Fast Resp	nse "A" Scale Minimu Height	um	tiable of	Sup.		1	PCB	element	•	Diass			
		(Minimum – 0 * V	<u> </u>				No.	Part N	lame	Q'TY	Material			
	Meter Se	tings: Fast Response "A	U " Scale	\backslash					-					
On side Case or Back:														
On Back:	Polarity Identifica	tion (when requ	ired)											
Date Code:	Date Code consi	sts of 2 Digits fo	r year nui	mber an	id 2 Dig	its for week								
SUBSTANCE OF	VERY HIGH	CONCERN (REACH	I) and	RoHS	S LEAD FREE	COMPLI	ANCE						
This product does N	OT contain any c	f the REACH S	ubstance	es of Ve	ery Hig	h Concern (SVHC	C), and com	plies w	ith Europea	n Unior	REACH			
Regulation No.1907/	2006 regarding c	nemical substa	inces tha	t must	be regi	stered and disclo	osed	d						
Lead (Pb) / Lead Com	pounds	≤1,000 ppm	≤ 10,000	ppm ⁽⁾	Poly	Brominated Diphe	enyl Ethers (Ethers (PBDE) ≤1,000 ppm In compliar						
Cadmium (Cd) / Cadm	y compounds	≤1,000 ppm	In comp	liance	Butvl	Bonzyl Phthalato		-)	≤1,000 ppn <1.000 ppm	n In compliance				
Hexavalent Chromium	n (Cr _{VI})	≤1,000 ppm	In comp	oliance	Dibut	tyl Phthalate (DBP	<u>(22:)</u> ')		≤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)-1 , 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)														
 According to the REACH terminology, Challenge Electronics acknowledge being Producers, Importers and Marketer of Sound Devices Articles, which do not contain Substances of Very High Concern (SVHC's) to be intentionally released Challenge Electronics hereby declares, to the best of our knowledge and based on our China Manufacturers and Fabricators information, that, all Challenge Electronics Sound Devices Articles are chemically safe, and should not harm any human, animals, or the environment It should be noted that SVHC items are not banned from inclusion, but are Reportable per current REACH regulations a) With the exception of The Piezoelectric-Ceramic-Disc article that CONTAINS more than 0.1% (w/w) of REACH Candidate List SVHC Lead-Zirconium-Titanium-Oxide (CAS 12626-81-2), which is a key ingredient of the Piezoelectric-Ceramic-Disc in the Alarm operation. See also the RoHS Compliance ANNEX III of the Directive Applications exempted from the restriction in Article 4(1) b) Some SMD and Dip type Capacitors CONTAINS one of the following Lead Oxides published in the ECHA SVHC Candidate List at or greater than 0.1% of total weight: Lead monoxide (CAS 1317-36-8), Lead titanium zirconium oxide (CAS 12626-81-2) In all cases, the lead substance is chemically combined in Capacitors and presents no hazard to humans or the environment under normal handling and use. In addition, Challenge Electronics complies with the restrictions stated in Annex XVII of REACH 														
IMDS Guide for Piezoelectric														
Interpretation Guide for ELV Annex II (2016/774/EC) Version 3.0 Optimition/interpretation of -Exemption (10a)														
Examples for components covered by (10a) a) Piezoceramics Piezoceramics are characterized through their ability to transform mechanical energy in electrical energy and reciprocal. They fulfil technical functions as actuators, sensors, generators and motors. They are used for instance in Actuators for diesel and gasoline injection valves, knock sensors, resonator and filter, actuators, bending actuators for pneumatic valves, tire Pressure Sensors, ceramic sensors (like ABS, air bag, pressure, car navigation sensors), Piezoelectric Alarms, Piezoelectric buzzers, Piezoelectric Sound Transducers, Ultrasonic Sensor and Transmitter . The lead content in the Piezoceramics is around 50 to 70% by weight, depending on the content of dopants, required functional properties and on the proportion of Zirconium (Zr) and Titanium (Ti)														
Density: 7.7 g/cm ³	CAS #: 12626-8	1-2 EC #: 23	5-727-4	Inclusion	n Date:	12/19/2012 DN-	ED/169/	2012	Product Cateo	ories [.]	Inorganics			
Safety Information:	RIDADR	: UN19	93	TSCA:	Yes	Hazard Class:	3		Packing Group):):	III			
In Challenge Electronics role as Supplier, we have taken the necessary steps towards our China Manufacturing in order to get a written confirmation about their knowledge of the Regulation and their analysis of the impact on their company														



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PACK	AGING							
			Shipping Box MARKING		TRAY		1	
	6×5PCS=30PCS/box	300PCS/CTN	Part Number		L		cm	
			Other PN (if required)	Dimensions	W		cm	
			Lot and/or Date Code		Н		cm	
			Quantity	Quantity		30		
			PO Number	SHIPPIN		BOX		
F.			Net Weight		L	58	8.5 cm	
6PCS			Gross Weight	Dimensions	W	31.5 cm		
1			Box Number of Boxes		Н	33.0 cm		
		22	RoHS Lead Free Compliance	Quantity	Jantity		300	
				Approximate Weight		Kg		
				Dimensions W	Neight		Kg	
	5PCS			Volume		M ³		
			Made in				China	
Revisio	on Description							
<u> </u>								
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