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95 Edst	ark. NY 11729 Fax: 1-631-667-5484	<u>20M</u>
Deerra	PRODUCT INFORMATION	
	PRODUCT INTONMATION	
	Part #: CE-C55A Revision: 0-20)13
DESCRIPTION	FEATURES	
Challenge Electronics CONTINUOUS Tone; EXTRA Loud, 25.1 mm Diameter, 22.2 mm High; 2 to 6 Vdc with a relatively low sound frequency of 3,000 Hz.; M Black style case; Sound Pressure Level of 98 dB(A) at 5 Vdc at 61 cm; PC Pins termination; RoHS Compliant; with Removable Washing Label; Miniature Piezoelectric Alarm SPECIFIC ATIONS:		
SPECIFICATION	5 ,	
Operating Mode	Extra Loud, Continuous Tones Pulse Rate	
Operating Voltage Operating Frequency	2.0 to 6.0 Vdc Nominal Operating Voltage 5.0 Vdc 3.000 ± 500 Hz. 3.000 ± 500 Hz. 5.0 Vdc	
	At Minimum Voltage 102 ± 7 dB(A), at 2 Vdc, 3.94 inches (10 cm), 25°C 88 ± 7 dB(A), at 2 Vdc, 24 inches (61 cm), 25°C	
Typical Loudness	At Nominal Voltage 112 ± 5 dB(A), at 5 Vdc, 3.94 inches (10 cm), 25°C 98 ± 5 dB(A), at 5 Vdc, 24 inches (61 cm), 25°C 112 ± 5 dB(A), at 6 Vdc, 3.94 inches (10 cm), 25°C	
	At Maximum Voltage 98 ± 5 dB(A), at 6 Vdc, 24 inches (61 cm), 25°C	
Typical Operating Current Operating Temperature	10 mA at 2 Vdc 33 mA at 5 Vdc 38 mA at 6 Vdc -30°C to +65°C Storage Temperature -40°C to +85°C 40°C to +85°C	
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes	
Alarm Case Plastic, "M" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black		
Diaphragm Stainless Steel 304 Encapsulation Two parts epoxy resign or silicone potting, Black		
Termination Two (2) PC pins, 0.032 Ø (0.8 Ø mm) Brass, Electro-Tin Plated. Centered on 0.6 inches (15.2 mm) Diameter pins spacing		
Physical Dimensions	Length or Diameter (L /D) 1.00" (25.4 mm) Ø Width (W) Height (H) 0.88" (22.2 m	ım)
Approximate Weight	18 grams Removable Washing Label Yes Compliance RoHS	
Available Options		
RELIABILITY		
Thermal Operating Temperature Test	240 hours continuous operation at Rated Power, at Maximum Rated Operating Temperature *	
Thermal Storage Temperat	240 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature * ture 96 hours storage at Maximum Rated Storage Temperatures *	
Test	96 hours storage at Minimum Rated Storage Temperatures *	
	SINGLE CYCLE	
Thermal Shock Test	5 cycles of Minimum and Maximum Operating Temperature Each cycle shell 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-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 o part are applied *	of the
Termination Strength	Maximum of 15 pounds (6.8 Kg) load pull test	
* Reliability Test Perform		
Interm	1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated voltage	
Life Test Contir	nuous 250 hours continuous operation at maximum rated Voltage and maximum Operating Temperatures	
	of one (1) year from date of shipping under normal operations conditions y does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to r	epair

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.

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Current Draw and Loudness 0.030 Inches DIMENSIONS Units Tolerance Vs. Input Voltage (mm)(0.7)120 FRONT VIEW SIDE VIEW REAR VIEW +I 4 dB(A), with Type 2 Meter **Typical Output Sound Level** 86±0.0 Nashing 110 40 Ø1.00 [21.8±0.4] NEGATIVE (mA) Label 0.30±0.04 [Ø25.4] [7.6±1.0] 100 30 0.03±0.008 Current [0.8±0.2] 0.60±0.03 90 [15.2±0.] Input 10 0.60 [15.2] POSITIVE 0.84 0.50+0.048 10 [21.3] [12.7±1.0] Input Voltage (V) PACKAGING MARKING Tray **TWO BUNDLE** ONE TRAY: **X1** Bundle cm X1 **Y1** Customer PN Dimensions cm Ζ1 Other PN if required cm Quantity Quantity 30 Lot and/or Date Code BUNDLE _____ X2 Bundle Number cm \sum ONE BUNDLE Y2 Dimensions Shipping Box cm Z2 Customer Part Number cm C ITEM SHIPPING BOX Other PN (if required) 300 Quantity C/N0: MADEINCHINA Quantity SHIPPING BOX Lot and/or Date Code Х3 50 cm Y3 6 <u>44</u> PO Number **Dimensions** 26 cm $\widetilde{\mathbb{N}}$ \$ # 7 7 Ζ3 Ť Net Weight 49 cm 7 MODEL 2 Gross Weighit Number of Bundles PCS QTY TOP KG KG NW GW 13 Box Number 600 Quantity X3 COVER SIZE of Number of Boxes Approximate Weight 8.3 Kg. LOT NO Made in China Country of Origin Date Revision Description By

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