



PRODUCT INFORMATION

Part #: CE-HX616ASS

Revision: 3-2012



DESCRIPTION		FEATURES			
Challenge Electronics CHIME Tone, EXTRA Loud, 6 to 16 Vdc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 102 dB(A) at 16 Vdc at 61 cm, 2,900 Hz. Output Frequency, S two 0.25" (6.4 mm) Blades with M3 0.25" (6.4 mm) long Stainless Steel Screws termination, Slow Rate 1 pulse per second, Piezoelectric Alarm, RoHS Compliant		<ul style="list-style-type: none"> ◆ 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 Certified 			
SPECIFICATIONS					
Operating Mode	Extra Loud, Slow Chime Tone		Pulse Rate	1 ± 10% Pulse per Second	
Operating Voltage	6 to 16 Vdc		Nominal Operating Voltage	12 Vdc	
Operating Frequency	2,900 ± 500 Hz.				
Typical Loudness	At Minimum Voltage	89 ± 5 dB(A), at 6 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	102 ± 3 dB(A), at 16 Vdc, 24 inches (61 cm), 25°C			
Typical Operating Current	At Minimum Voltage	14 mA at 6 Vdc	At Maximum Voltage	45 mA at 16 Vdc	
Operating Temperature	-30°C to +65°C		Storage Temperature	-40°C to +105°C	
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes				
Materials	Alarm Case	Plastic, "A" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black			
	Diaphragm	Stainless Steel 304			
	Encapsulation	Two parts epoxy resin or silicone potting, Black			
	Termination	Two, 0.25 (6.4 mm) Quick Connect Blades, 0.032Ø (0.8Ø mm) Wide, Brass, Electro-Tin plated With M3 0.25" (6.4 mm) long Stainless Steel Screws.			
Physical Dimensions	Length or Diameter (L / D)	1.46" (37.1 mm) Ø	Width (W)	Height (H)	1.4" (35.7 mm)
Approximate Weight	38 grams	Removable Washing Label	No	Compliance	RoHS
Available Options					
RELIABILITY					
Thermal Operating Temperature Test	240 hours continuous operation at Rated Power , at Maximum Rated Operating Temperature *				
Thermal Storage Temperature Test	240 hours continuous operation at Rated Power , at Minimum Rated Operating Temperature *				
Thermal Shock Test	96 hours storage at Maximum Rated Storage Temperatures *				
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Thermal Shock Test	5 cycles of Minimum and Maximum Operating Temperature Each cycle shall 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	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 10mm wooden board, 2 directions upper and side of the part are applied *				
Termination Strength	Maximum of 15 pounds (6.8 Kg) load pull test and of 4 lb. per inch driving torque on screw				
* Reliability 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			
	Continuous	250 hours continuous operation at maximum rated Voltage and maximum Operating Temperatures			
Warranty	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				



Current Draw and Loudness Vs. Input Voltage		DIMENSIONS		Units	Inches (mm)	Tolerance	0.030 (0.7)																				
Typical Output Sound Level ±4 dB(A), with Type 2 Meter		Input Current (mA)	FRONT VIEW		RING NUT		SIDE VIEW		REAR VIEW																		
	<p>120 110 100 90 80 70</p> <p>5 10 15 20</p> <p>Input Voltage (V)</p>		<p>0.96D [24.5D] 1.40D [35.6D] 0.22 [5.6]</p> <p>1.40 [35.5] 1.12 [28.4]</p> <p>1.07D [27.3D] 1.12D [28.4D]</p>		<p>1.40 [35.7] 0.41 [10.4]</p> <p>1.125-24 UNF THREADS MAJOR D 1.118 MINOR D 1.074 PITCH D 1.094</p>		<p>0.86 [21.7] 0.45 [11.4]</p> <p>0.25 [6.4]</p> <p>2 S.S. SCREWS M3; 0.25 (6.4mm) LONG</p>		<p>1.00 [25.4]</p> <p>0.31 [8.0] 0.03 [0.8]</p> <p>MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER</p>																		
PACKAGING																											
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						Bundle			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">X1</td> <td style="width: 20px;">34.7 cm</td> </tr> <tr> <td>Y1</td> <td>34.7 cm</td> </tr> <tr> <td>Z1</td> <td>21.2 cm</td> </tr> </table>			X1	34.7 cm	Y1	34.7 cm	Z1	21.2 cm										
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TOP COVER			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">ITEM:</td> <td style="width: 20px;">MADE IN CHINA</td> </tr> <tr> <td>C/NQ:</td> <td></td> </tr> <tr> <td>MODEL</td> <td></td> </tr> <tr> <td>QTY</td> <td>PCS</td> </tr> <tr> <td>N.W</td> <td>KG</td> </tr> <tr> <td>G.W</td> <td>KG</td> </tr> <tr> <td>SIZE</td> <td></td> </tr> <tr> <td>LOT NO</td> <td></td> </tr> </table>			ITEM:	MADE IN CHINA	C/NQ:		MODEL		QTY	PCS	N.W	KG	G.W	KG	SIZE		LOT NO		Quantity			Quantity		
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