



PRODUCT INFORMATION

Part #: **CE-HM948AQM**

Revision: 3-2012



DESCRIPTION		FEATURES			
Challenge Electronics, CHIME Tone, MEDIUM Loud, 9 to 48 Vac/dc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 96 dB(A) at 48 Vdc at 61 cm, 2,900 Hz. Output Frequency, Quick Connect Blades termination, Moderate Rate 2 pulses 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	Medium Loud, Moderate Chime Tone	Pulse Rate	2 ± 10% Pulses per Second		
Operating Voltage	9 to 48 Vdc	Nominal Operating Voltage	36 Vdc		
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	80 ± 5 dB(A), at 9 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	96 ± 3 dB(A), at 48 Vdc, 24 inches (61 cm), 25°C			
Typical Operating Current	At Minimum Voltage	10 mA at 9 Vdc	At Maximum Voltage	30 mA at 48 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			
Physical Dimensions	Length or Diameter (L/D)	1.46" (37.1 mm) Ø	Width (W)	Height (H)	1.4" (35.7 mm)
Approximate Weight	35 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 *				
	240 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *				
Thermal Storage Temperature Test	96 hours storage at Maximum Rated Storage Temperatures *				
	96 hours storage at Minimum Rated Storage Temperatures *				
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				
* 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)												
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Typical Output Sound Level ±4 dB(A), with Type 2 Meter</p> <p style="text-align: center;">Input Voltage (V)</p>	<p style="text-align: center;">FRONT VIEW</p> <p style="text-align: center;">RING NUT</p> <p style="text-align: center;">SIDE VIEW</p> <p style="text-align: center;">REAR VIEW</p> <p style="text-align: center;">MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER</p> <p style="text-align: center;">1.125-24 UNF THREADS MAJOR D 1.118 MINOR D 1.074 PITCH D 1.094</p>																
PACKAGING																	
<p style="text-align: center;">ONE TRAY:</p> <p style="text-align: center;">TWO BUNDLE</p> <p style="text-align: center;">ONE BUNDLE:</p> <p style="text-align: center;">SHIPPING BOX</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <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>	MODEL		QTY	PCS	N.W	KG	G.W	KG	SIZE		LOT NO						
MODEL																	
QTY	PCS																
N.W	KG																
G.W	KG																
SIZE																	
LOT NO																	
		MARKING	TRAY														
		Bundle		X1	34.7 cm												
		Customer PN	Dimensions	Y1	34.7 cm												
		Other PN if required		Z1	21.2 cm												
		Quantity	Quantity	42													
		Lot and/or Date Code	BUNDLE														
		Bundle Number		X2	cm												
		Shipping Box	Dimensions	Y2	cm												
		Customer Part Number		Z2	cm												
		Other PN (if required)	Quantity														
		Quantity	SHIPPING BOX														
		Lot and/or Date Code		X3	35 cm												
		PO Number	Dimensions	Y3	35 cm												
		Net Weight		Z3	22.5 cm												
		Gross Weighjt	Number of Bundles	1													
		Box Number	Quantity	250													
		of Number of Boxes	Approximate Weight	9 Kg.													
		Made in China															