



PRODUCT INFORMATION

Part #: CE-HM948ALM

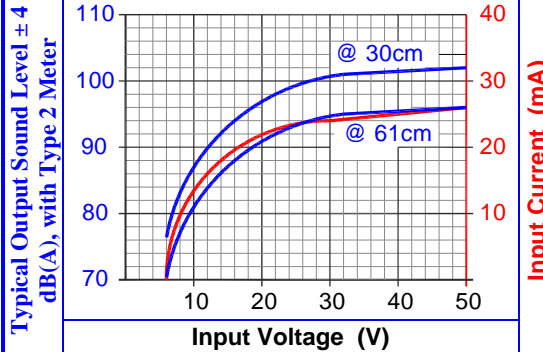
Revision: 3-2012



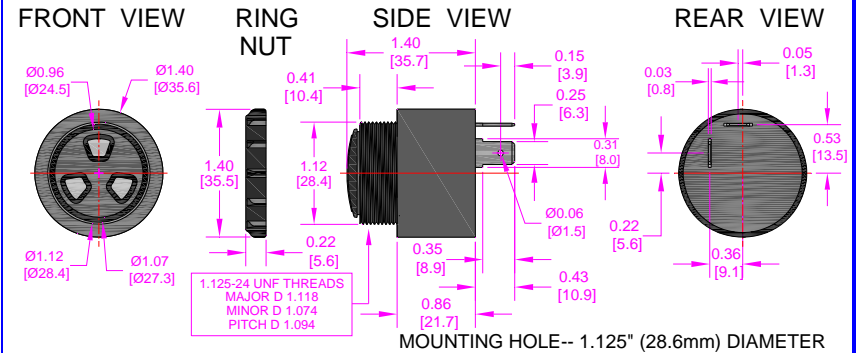
DESCRIPTION		FEATURES				
Challenge Electronics Custom made; CHIME Tone; MEDIUM Loud; A Style case; 9 to 48 Vdc; 2,900 Hz. Frequency; 98 dB at 61 cm 36 Vdc; L shape 0.25" Quick Disconnect Blades Termination; Moderate 2 Pulses per second Rate; Piezoelectric Alarm		<ul style="list-style-type: none"> ◆ 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		Chime Rate	2 ± 10% Pulses per second		
Operating Voltage	9 to 48 Vdc		Nominal Operating Voltage	36 Vdc		
Operating Frequency	2,900 ± 250 Hz.					
Sound Pressure Level	At Minimum Voltage	80 ± 6 dB(A) at: 9 Vdc, 24 inches (61 cm), 25°C				
	At Maximum Voltage	96 ± 4 dB(A) at: 48 Vdc, 24 inches (61 cm), 25°C				
Maximum 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 +100°C		
Surge Voltage	10% over maximum Operating Voltage for less than 1 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 and/or silicone potting, Black				
	Termination	Two (2), 0.25 (6.4 mm) Quick Disconnect Blades, 0.032" (0.8mm) thick, Brass, Electro-Tin plated Termination must fit Delphi Connector PE 2973385				
Physical Dimensions	Length or Diameter (L/D)	1.40" (35.6 mm) Ø	Width (W)		Height (H)	1.41" (35.7 mm)
Approximate Weight	34 grams	Removable Washing Label	No	Compliance	RoHS	
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 *					
Environmental Exposure	Dust, water, salt, dust-control agents, moisture-control agents, detergents, degreasers, diesel fuel, hydraulic fluid 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 10 mm 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 ± 3 dB					
Life Test	Intermittent	1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and Nominal Rated Voltage				
	Continuous	250 hours continuous operation at room temperature and Nominal Rated Voltage				
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					



SPL and CURRENT Vs. INPUT VOLTAGE

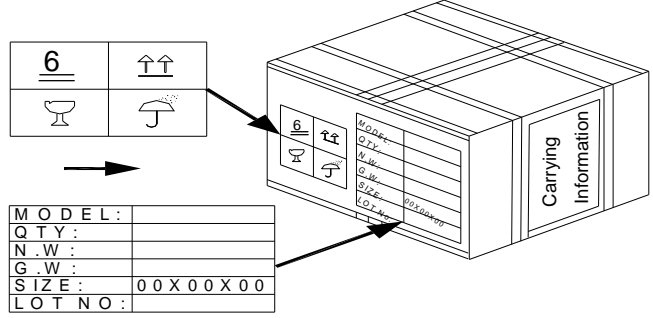
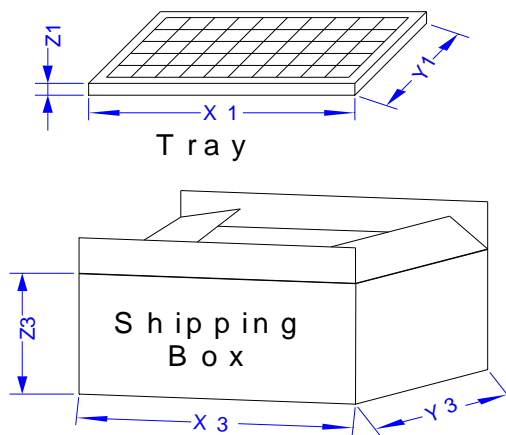


DIMENSIONS



Units	Inches	Tolerance	0.030 (0.7)
	(mm)		

PACKAGING



Tray		
Dimensions	X1	34.7 cm
	Y1	34.7 cm
	Z1	21.2 cm
Quantity	42	
SHIPPING BOX		
Dimensions	X2	35 cm
	Y2	35 cm
	Z2	22.5 cm
Part Number		
Customer PN (if required)		
Number of Trays		
Quantity	250 each	
Lot and/or Date Code		
PO Number		
Net Weight		
Gross Weight		
Box Number		
of Number of Boxes		
Country of Origin	Made in China	

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.