



PRODUCT INFORMATION



Part #:

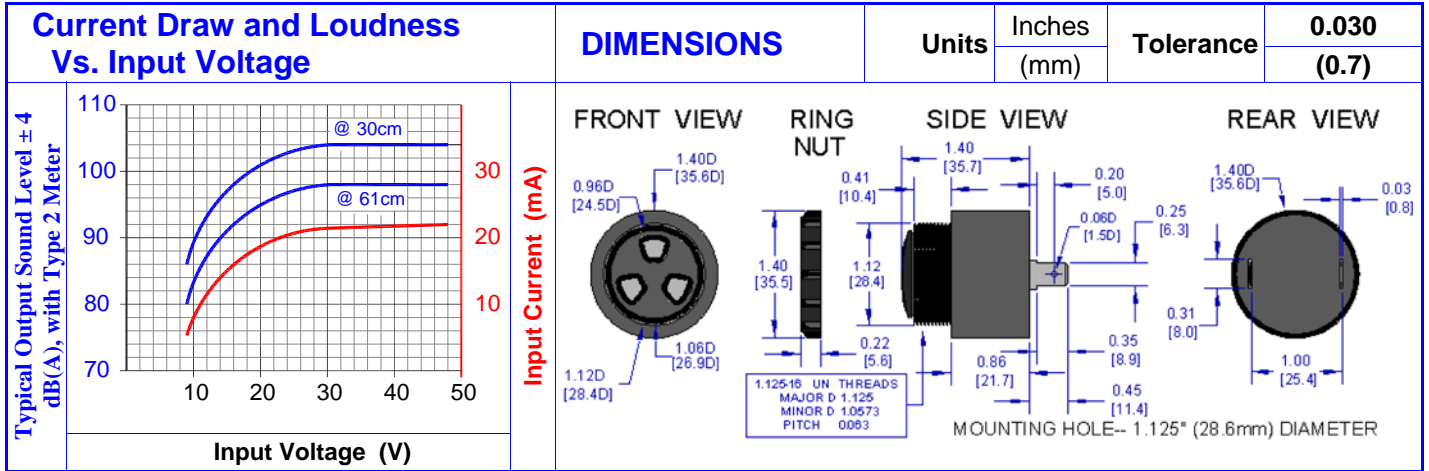
CE-CM948AQ

Revision: 5-2018



DESCRIPTION		FEATURES			
Challenge Electronics CONTINUOUS Tone, MEDIUM Loud, 9 to 48 Vdc, A style back panel mounted case, Sound Pressure Level of 100 dB(A) at 48 Vdc at 61 cm, 2,900 Hz. Output Frequency, Quick Connect Blades termination, 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, Continuous Tones		Pulse Rate		
Operating Voltage	9 to 48 Vdc		Nominal Operating Voltage		36 / 48 Vdc
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	87 ± 5 dB(A), at 9 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	100 ± 5 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	25 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 resign or silicone potting, Black			
	Termination	Two 2 0.25 (6.4 mm) Quick Connect Blades, 0.032Ø (0.8Ømm) wide, Brass, Electro-Tin plated			
Physical Dimensions	Length or Diameter (L/D)	1.4" (35.6 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 *				
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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				
* 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				

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.



PACKAGING

ONE TRAY:		TWO BUNDLE		SHIPPING BOX																																	
				<table border="1"> <thead> <tr> <th colspan="2">Tray</th> </tr> </thead> <tbody> <tr> <td>Dimensions</td> <td>X1: 34.7 cm, Y1: 34.7 cm, Z1: 21.2 cm</td> </tr> <tr> <td>Quantity</td> <td>42</td> </tr> <tr> <th colspan="2">SHIPPING BOX</th> </tr> <tr> <td>Dimensions</td> <td>X2: 35 cm, Y2: 35 cm, Z2: 22.5 cm</td> </tr> <tr> <td>Part Number</td> <td></td> </tr> <tr> <td>Customer PN (if required)</td> <td></td> </tr> <tr> <td>Number of Trays</td> <td></td> </tr> <tr> <td>Quantity</td> <td>250</td> </tr> <tr> <td>Lot and/or Date Code</td> <td></td> </tr> <tr> <td>PO Number</td> <td></td> </tr> <tr> <td>Net Weight</td> <td></td> </tr> <tr> <td>Gross Weight</td> <td></td> </tr> <tr> <td>Box Number</td> <td></td> </tr> <tr> <td>of Number of Boxes</td> <td></td> </tr> <tr> <td>Country of Origin</td> <td>Made in China</td> </tr> </tbody> </table>		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	Lot and/or Date Code		PO Number		Net Weight		Gross Weight		Box Number		of Number of Boxes		Country of Origin	Made in China
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Revision	Description	By	Date
4-2017	Update mechanical drawing. Change terminal height to 11.4 mm.	WS	7/6/2017
5-2018	Updated typical loudness at maximum voltage from 97 ± 3 dB(A) to 100 ± 5 dB(A). Updated mechanical drawing with new thread dimensions.	JL	4/9/2018