



Part #:

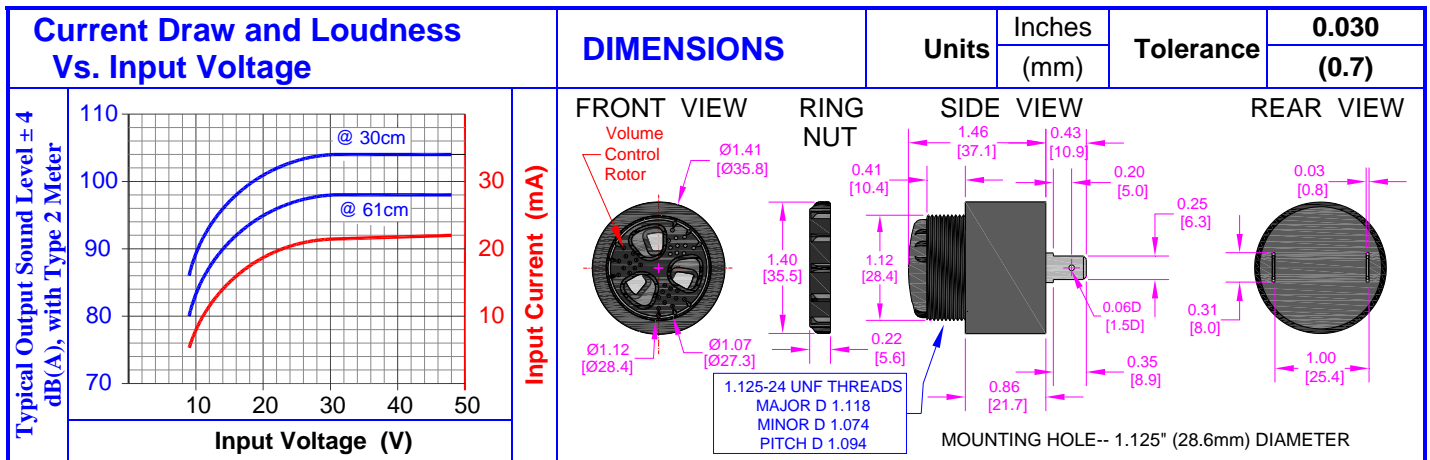
# PRODUCT INFORMATION

## CE-BM550AVQF

Revision: 4-2013



DESCRIPTION		FEATURES			
<p><b>Challenge Electronics BEEPING Tone, MEDIUM Loud, 15 to 50 Vac/dc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 98 dB(A) at 50 Vac at 61 cm, 2,900 Hz. Output Frequency, Quick Connect Blades termination, Fast Rate 3 pulses per second, Piezoelectric Alarm with a mechanical Volume Control, RoHS Compliant</b></p>		<ul style="list-style-type: none"> <li>◆ Reliable Solid State Piezoelectric Technology</li> <li>◆ Corrosion resistant Stainless Steel Diaphragm</li> <li>◆ Flame Retardant Plastic</li> <li>◆ Extended storage temperature</li> <li>◆ Hermetically Sealed Alarm</li> <li>◆ Water Proof, NEMA 3R, 4X, or 12 with Gasket (not supplied)</li> <li>◆ RoHS</li> <li>◆ ISO 9001 Certified</li> </ul>			
SPECIFICATIONS					
Operating Mode	Medium Loud, Fast Intermittent Tone		Pulse Rate	3 ± 10% Pulses per Second	
Operating Voltage	15 to 50 Vac/dc		Nominal Operating Voltage	36 and 48 Vac	
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	90 ± 5 dB(A), at 15 Vac, 24 inches (61 cm), 25°C			
	At Maximum Voltage	98 ± 3 dB(A), at 50 Vac, 24 inches (61 cm), 25°C			
Volume Control	<p>Maximum Sound Pressure Level can be restricted up to 20 dB from maximum output. (Note, The Volume Control Rotor may reduce maximum loudness)            To install, simply, push the ROTOR onto the front of alarm until it snapped in place            To attenuate sound, while alarm is turned on, rotate the ROTOR until maximum desired sound is achieved</p>				
Typical Operating Current	At Minimum Voltage	15 mA at 15 Vac	At Maximum Voltage	25 mA at 50 Vac	
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, 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)	1.46" (37.1 mm)
Approximate Weight	37 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	<p>96 hours storage at Maximum Rated Storage Temperatures *</p> <p>96 hours storage at Minimum Rated Storage Temperatures *</p> <p>5 cycles of Minimum and Maximum Operating Temperature            Each cycle shall be set per diagram below and is 3 hours long *</p>				
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				



PACKAGING		MARKING	TRAY	
<b>ONE TRAY:</b>	<b>TWO BUNDLE</b>	<b>Bundle</b>	Dimensions	<b>X1</b> 34.7 cm
		Customer PN		<b>Y1</b> 34.7 cm
<b>ONE BUNDLE:</b>	<b>SHIPPING BOX</b>	Other PN if required		<b>Z1</b> 21.2 cm
		Quantity	Quantity <b>42</b>	
<b>TOP COVER</b>		Lot and/or Date Code	<b>BUNDLE</b>	
		Bundle Number	<b>X2</b>	cm
		<b>Shipping Box</b>	Dimensions	
		Customer Part Number	<b>Y2</b>	cm
		Other PN (if required)	<b>Z2</b>	cm
		Quantity	<b>SHIPPING BOX</b>	
		Lot and/or Date Code	<b>X3</b>	35 cm
		PO Number	<b>Y3</b>	35 cm
		Net Weight	<b>Z3</b>	22.5 cm
		Gross Weight	Number of Bundles	<b>1</b>
		Box Number of Boxes	Quantity	<b>250</b>
		<b>Made in China</b>	Approximate Weight	<b>9 Kg.</b>

Revision	Description	By	Date
4-2013	Corrected Dimension Drawing	Ely Zofan	11/14/2013