



Part #: CE-BM530AVQF

Revision: 4-2013



DESCRIPTION		FEATURES			
<p>Challenge Electronics BEEPING Tone, MEDIUM Loud, 5 to 30 Vdc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 98 dB(A) at 30 Vdc 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</p>		<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 ◆ ISO 9001 Certified 			
SPECIFICATIONS					
Operating Mode	Medium Loud, Fast Intermittent Tone	Pulse Rate	3 ± 10% Pulses per Second		
Operating Voltage	5 to 30 Vdc	Nominal Operating Voltage	24 Vdc		
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	85 ± 5 dB(A), at 5 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	98 ± 3 dB(A), at 30 Vdc, 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	5 mA at 5 Vdc	At Maximum Voltage	25 mA at 30 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)	1.46" (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 *				
	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	<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				



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)	<p>1.125-24 UNF THREADS MAJOR D 1.118 MINOR D 1.074 PITCH D 1.094</p> <p>MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER</p>				
PACKAGING							
<p>ONE TRAY:</p>	<p>TWO BUNDLE</p>			MARKING		TRAY	
<p>ONE BUNDLE:</p>	<p>SHIPPING BOX</p>			Bundle	Dimensions	X 1	34.7 cm
		Quantity	Quantity	Customer PN		Y 1	34.7 cm
		Lot and/or Date Code		Other PN if required		Z 1	21.2 cm
		Quantity	Quantity	Quantity		42	
		Lot and/or Date Code	BUNDLE				
		Bundle Number		X 2		cm	
		Shipping Box		Y 2		cm	
		Customer Part Number		Z 2		cm	
		Other PN (if required)	Quantity				
		Quantity	SHIPPING BOX				
		Lot and/or Date Code		X 3		35 cm	
		PO Number		Y 3		35 cm	
		Net Weight		Z 3		22.5 cm	
		Gross Weight	Number of Bundles	1			
		Box Number of Boxes	Quantity	250			
		Made in China	Approximate Weight	9 Kg.			
Revision	Description		By		Date		
4-2013	Corrected Dimension Drawing		Ely Zofan		11/14/2013		

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