



# PRODUCT INFORMATION

Part #: **CE-BM631AVQF**

Revision: 5-2018



DESCRIPTION		FEATURES				
<b>Challenge Electronics BEEPING Tone, MEDIUM Loud, 6 to 30 Vac/dc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 98 dB(A) at 30 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>		<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, Lead Free Compliance</li> <li>◆ ISO 9001 Certified</li> </ul>				
SPECIFICATIONS						
Operating Mode	Medium Loud, Fast Intermittent Tone	Pulse Rate	3 ± 10% Pulses per Second			
Operating Voltage	6 to 30 Vac/dc	Nominal Operating Voltage	24 Vac			
Operating Frequency	2,900 ± 250 Hz.					
Typical Loudness	At Minimum Voltage	85 ± 5 dB(A), at 6 Vac, 24 inches (61 cm), 25°C				
	At Maximum Voltage	98 ± 3 dB(A), at 30 Vac, 24 inches (61 cm), 25°C				
Volume Control	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					
Typical Operating Current	At Minimum Voltage	5 mA at 6 Vac	At Maximum Voltage	25 mA at 30 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 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	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	5 cycles of Minimum and Maximum Operating Temperature Each cycle shall be set per diagram below and is 3 hours long *				<p><b>SINGLE CYCLE</b></p> <p>Maximum °C</p> <p>25°C</p> <p>15 30 45 60 90 120 150 180 210</p> <p>Minimum °C</p> <p>Minutes</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					

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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)	FRONT VIEW		RING NUT		SIDE VIEW		REAR VIEW			
Input Voltage (V)		1.125-24 UNF THREADS MAJOR D 1.118 MINOR D 1.074 PITCH D 1.094		MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER								
PACKAGING												
				<b>MARKING</b>		<b>TRAY</b>						
				Bundle		Dimensions		X1	34.7 cm			
				Customer PN				Y1	34.7 cm			
				Other PN if required				Z1	21.2 cm			
				Quantity		Quantity		42				
				Lot and/or Date Code		<b>BUNDLE</b>						
				Bundle Number		Dimensions		X2	cm			
				Shipping Box				Y2	cm			
				Customer Part Number				Z2	cm			
				Other PN (if required)		Quantity						
				Quantity		<b>SHIPPING BOX</b>						
				Lot and/or Date Code		Dimensions		X3	35 cm			
				PO Number				Y3	35 cm			
				Net Weight				Z3	22.5 cm			
				Gross Weight		Number of Bundles		1				
				Box Number		Quantity		250				
				of Number of Boxes		Approximate Weight		9 Kg.				
				Made in China								
Revision	Description						By	Date				
4-2013	Corrected Dimension Drawing						EZ	11/17/2013				
5-2018	Corrected Terminal Dimension in drawing and Min Voltage (typeo)						WS/JL	06/27/2018				

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