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PRODUCT INFORMATION

Part #: **CE-BM170AQS**

Revision: 3-2012



DESCRIPTION		FEATURES			
Challenge Electronics B INTERMITTENT Tone, MEDIUM Loud, 30 to 120 Vac/dc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 97 dB(A) at 117 Vac at 61 cm, 2,900 Hz. Output Frequency, Quick Connect Blades termination, Slow Rate 1 pulse per second, 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, Slow Intermittent Tones		Pulse Rate	1 ± 10% Pulse per Second	
Operating Voltage	30 to 170 Vac/dc		Nominal Operating Voltage	117 Vac	
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	85 ± 5 dB(A), at 30 Vac, 24 inches (61 cm), 25°C			
	At Maximum Voltage	97 ± 3 dB(A), at 117 Vac, 24 inches (61 cm), 25°C			
Typical Operating Current	At Minimum Voltage	4 mA at 30 Vac	At Maximum Voltage	15 mA at 117 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 Disconnect Blades, 0.032Ø (0.8Ø mm) 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 *				
Thermal Storage Temperature Test	240 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *				
Thermal Shock 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 *				
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.

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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		FRONT VIEW	RING NUT	SIDE VIEW	REAR VIEW													
				<p>MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER</p>														
PACKAGING																		
<p>ONE TRAY:</p>	<p>TWO BUNDLE</p>	<p>MARKING</p>		<p>TRAY</p>														
<p>ONE BUNDLE:</p>	<p>SHIPPING BOX</p>	<p>Bundle</p>	Dimensions	X1	34.7 cm													
<p>TOP COVER</p> <table border="1"> <tr> <td>MODEL</td> <td></td> </tr> <tr> <td>QTY</td> <td>PCS</td> </tr> <tr> <td>N.W</td> <td>KG</td> </tr> <tr> <td>G.W</td> <td>KG</td> </tr> <tr> <td>SIZE</td> <td></td> </tr> <tr> <td>LOT NO</td> <td></td> </tr> </table>	MODEL			QTY	PCS	N.W	KG	G.W	KG	SIZE		LOT NO		<p>ITEM: C/NO: MADE IN CHINA</p>	<p>Customer PN</p>	Y1	34.7 cm	
	MODEL																	
QTY	PCS																	
N.W	KG																	
G.W	KG																	
SIZE																		
LOT NO																		
		<p>Other PN if required</p>	Z1	21.2 cm														
		<p>Quantity</p>	Quantity	42														
		<p>Lot and/or Date Code</p>	BUNDLE															
		<p>Bundle Number</p>	Dimensions	X2	cm													
		<p>Shipping Box</p>		Y2	cm													
		<p>Customer Part Number</p>	Z2	cm														
		<p>Other PN (if required)</p>	Quantity															
		<p>Quantity</p>	SHIPPING BOX															
		<p>Lot and/or Date Code</p>	Dimensions	X3	35 cm													
		<p>PO Number</p>		Y3	35 cm													
		<p>Net Weight</p>		Z3	22.5 cm													
		<p>Gross Weighjt</p>	Number of Bundles	1														
		<p>Box Number</p>	Quantity	250														
		<p>of Number of Boxes</p>	Approximate Weight	9 Kg.														
		Made in China																