


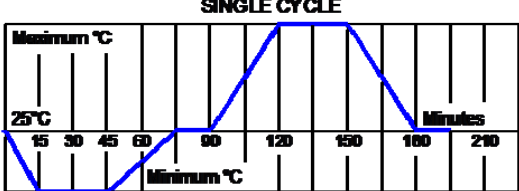


PRODUCT INFORMATION

Part #: **CE-CM230AS**

Revision: 3-2018



DESCRIPTION		FEATURES			
Challenge Electronics CONTINUOUS Tone, MEDIUM Loud, 2 to 30 Vdc, A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 100 dB(A) at 30 Vdc at 61 cm, 2,900 Hz. Output Frequency, S two 0.25" (6.4 mm) Blades with M3 0.25" (6.4 mm) long Stainless Steel Screws 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					
Operating Voltage		2 to 30 Vdc		Nominal Operating Voltage 24 Vdc	
Operating Frequency		2,900 ± 500 Hz.			
Typical Loudness		At Minimum Voltage		70 ± 5 dB(A), at 2 Vdc, 24 inches (61 cm), 25°C	
		At Maximum Voltage		100 ± 5 dB(A), at 30 Vdc, 24 inches (61 cm), 25°C	
Typical Operating Current		At Minimum Voltage 2 mA at 2 Vdc		At Maximum Voltage 20 mA max 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 resign or silicone potting, Black			
	Termination	Two, 0.25 (6.4 mm) Quick Connect Blades, 0.032 Ø (0.8 Ø mm) Wide, Brass, Electro-Tin plated With M3, 0.25" (6.4 mm) long Stainless Steel Screws.			
Physical Dimensions		Length or Diameter (L/D)	1.4" (35.6 mm) Ø	Width (W)	
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 *			
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 10 mm wooden board, 2 directions upper and side of the part are applied *			
Termination Strength		Maximum of 15 pounds (6.8 Kg) load pull test and of 4 lb. per inch driving torque on screw			
* 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			

