



PRODUCT INFORMATION



ABBREVIATED PART #: CECB225-915
FULL PART #: CECB225W145-915C400PR

Revision: 2-2012

Mechanical Buzzer



DESCRIPTION:

Challenge Electronics Mechanical Buzzer, 22.5 mm Long, 16.0 mm Wide, W Type Housing, 14.5 mm High, 9 to 15 Vdc Operating Voltage, Continuous Tone, Medium Loud, 400 Hz. sound frequency, PCB mounted, Terminated with 4 PC Pins, RoHS Lead Free Compliance

FEATURES:

- RoHS, Lead Free Compliant
- ISO 9001 & QS900 Certified

SPECIFICATIONS:

Sound Type	Continuous			Rate	
Operating Voltage	9 - 15 Vdc	Rated Voltage	12 Vdc	Maximum Current at Rated Voltage	
Sound Pressure Level	75 dB(A), at rated Voltage and 20 cm			Resonant Frequency	
Operating Temperature	-30°C to + 70°C			Storage Temperature	
Termination	Four PC Pins, 0.6 mm diameter each, 4.5 mm long, Brass or Copper.				
Material	NORYL, Plastic			Color	Black
Dimensions	Long (L)	22.5 mm	Width (W)	16.0 mm	Height (H)
Approximate Weight	8.5 grams	Mounting	PCB		Compliance
Packaging	RoHS Lead Free				

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	After parts are subjected to 240 hours storage at Maximum Rated Storage Temperatures *
	After parts are subjected to 240 hours storage at Minimum Rated Storage Temperatures *
Thermal Shock Test	<p>After parts are subjected to five (5) cycles of Minimum and Maximum Operating Temperature. Each cycle shall be set per diagram below and is three (3) hours long *</p> <div style="text-align: right;"> <p style="font-size: small;">SINGLE CYCLE Maximum °C 25°C Minutes 15 30 45 60 90 120 150 180 210 Minimum °C</p> </div>
Humidity Test	After parts are subjected to 240 Hours at +40°C±2°C. 90-95% RH *
Operation Life Test	Must perform normal with program White Noise source at Rated Power for 100 Hours per (EIA)
Vibration Test	After parts are subjected to 2 Hours of at 1.5 mm with 10 to 55 Hz. vibration frequency to each of 3 perpendicular directions *
Termination Strength	Maximum of 9.8 N (1.0 Kg) load pull test, applied to each terminal in axial direction for 10 seconds
Drop Test	After parts are subjected to dropped naturally from 1 meter height onto the surface of 40 mm wooden board, 3 axes (X,Y,Z) directions, 3 times (6 times total) *
Reliability Test Performance *	Parts should conform to original performance within ±5 dB tested with Rated Power, after 3 hours of recovery period
Warranty	For a period of one (1) year from date of shipping under normal operations conditions

Performance Curve:

Sound Pressure Level & Current Vs. Input Voltage

Dimensions:

Units in: mm Tolerance: ±0.5mm



Challenge Electronics
95 East Jefryn Boulevard
Deer Park, NY 11729

Tel: 1-800-722-8197
1-631-595-2217
Fax: 1-631-667-5484

EMAIL: SALES@CHALLELEC.COM
WEB: WWW.CHALLEEELECTRONICS.COM

