



**PRODUCT INFORMATION**



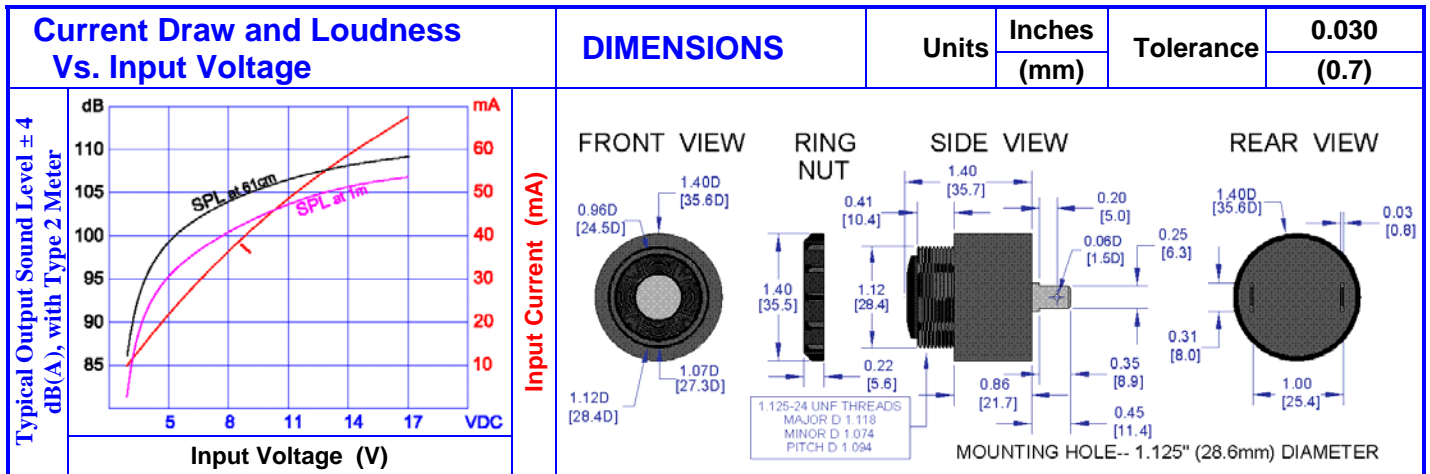
**Part #:**

**CE-SU515BQ**

**Revision: 6-2017**



DESCRIPTION		FEATURES			
<p><b>Challenge Electronics SIREN Tone, ULTRA Loud, 5 to 15 Vdc</b> with a relatively low sound frequency of 2,100 Hz., <b>B</b> style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of 108 dB(A) at 15 Vdc at 61 cm, <b>Quick Connect Blades</b> termination, <b>4</b> cycles per second, Piezoelectric Alarm, RoHS Compliant</p>		<ul style="list-style-type: none"> <li>◆ <b>Reliable Solid State Piezoelectric Technology</b></li> <li>◆ <b>Corrosion resistant Stainless Steel Diaphragm</b></li> <li>◆ <b>Flame Retardant Plastic</b></li> <li>◆ <b>Extended storage temperature</b></li> <li>◆ <b>Hermetically Sealed Alarm</b></li> <li>◆ <b>Water Proof, NEMA 3R, 4X, or 12 with Gasket (not supplied)</b></li> <li>◆ <b>RoHS, Lead Free Compliance</b></li> <li>◆ <b>ISO 9001 Certified</b></li> </ul>			
SPECIFICATIONS					
Operating Mode	Ultra Loud, Siren Tone		Sweeping Rate		4 ± 10% Cycles per Second
Operating Voltage	5 to 15 Vdc		Nominal Operating Voltage		12 Vdc
Operating Frequency	Center Frequency 2,100 ± 200 Hz. Fast Rate, Low to High to Low Sweeping Frequencies approximately ± 200 Hz. from Center Frequency				
Typical Loudness	At Minimum Voltage	100 ± 5 dB(A), at 5 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	108 ± 3 dB(A), at 15 Vdc, 24 inches (61 cm), 25°C			
Typical Operating Current	At Minimum Voltage	20 mA at 5 Vdc	At Maximum Voltage	70 mA at 15 Vdc	
	Operating Temperature	-30°C to +85°C		Storage Temperature	-40°C to +105°C
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes				
Materials	Alarm Case	Plastic, "B" Case Style, 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 Disconnect Blades, 0.032Ø (0.8Ø mm) wide, Brass, Electro-Tin plated			
Physical Dimensions	Length or Diameter (L/D)	1.40" (35.6 mm) Ø	Width (W)	Height (H)	1.40" (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 *				
	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 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				



**PACKAGING**

ONE TRAY:	TWO BUNDLE	MARKING	TRAY
		<b>Bundle</b> Customer PN Other PN if required Quantity Lot and/or Date Code	Dimensions <b>X1</b> 34.7 cm <b>Y1</b> 34.7 cm <b>Z1</b> 21.2 cm Quantity <b>42</b>
<b>ONE BUNDLE:</b> 	<b>SHIPPING BOX</b> 	<b>Shipping Box</b> Customer Part Number Other PN (if required) Quantity Lot and/or Date Code PO Number Net Weight Gross Weight Box Number of Number of Boxes <b>Made in China</b>	<b>BUNDLE</b> Dimensions <b>X2</b> cm <b>Y2</b> cm <b>Z2</b> cm <b>SHIPPING BOX</b> Dimensions <b>X3</b> 35 cm <b>Y3</b> 35 cm <b>Z3</b> 22.5 cm Number of Bundles <b>1</b> Quantity <b>250</b> Approximate Weight <b>9 Kg.</b>

Revision	Description	By	Date
6-2017	Updated mechanical drawing. Changed terminal height to 11.4 mm.	JL	7-7-2017