



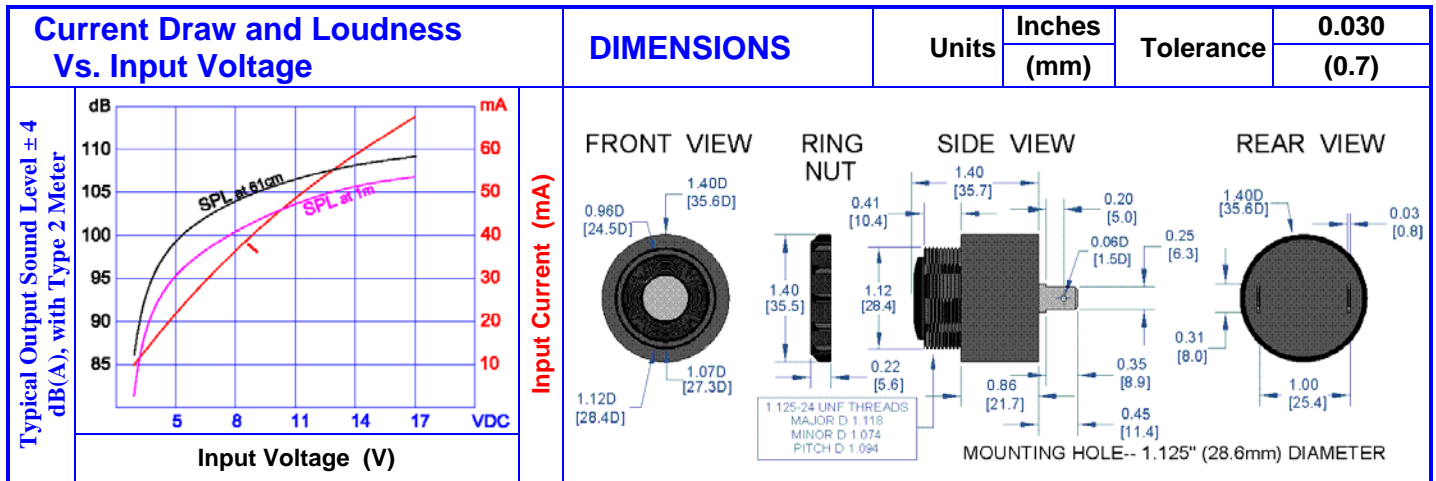
PRODUCT INFORMATION



Part #: CE-CU515BQ

Revision: 6-2017

DESCRIPTION		FEATURES	
Challenge Electronics CONTINUOUS Tone, ULTRA Loud, 5 to 15 Vdc with a relatively low sound frequency of 2,100 Hz., 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, Quick Connect Blades 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	Ultra Loud, Continuous Tone		Pulse Rate
Operating Voltage	5 to 15 Vdc		Nominal Operating Voltage 12 Vdc
Operating Frequency	2,100 ± 200 Hz.		
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 15Vdc
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, "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)
Approximate Weight	35 grams	Removable Washing Label	No
Available Options	Compliance RoHS		
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		MARKING	TRAY		
<p>ONE TRAY:</p> <p>X1</p> <p>Y1</p>	<p>TWO BUNDLE</p>	<p>Bundle</p>	Dimensions	X1	34.7 cm
<p>ONE BUNDLE:</p> <p>X2</p> <p>Y2</p>	<p>SHIPPING BOX</p> <p>X3</p> <p>Y3</p> <p>Z3</p>	<p>Part Number</p>		Y1	34.7 cm
<p>TOP COVER</p>		<p>Other PN if required</p>		Z1	21.2 cm
<p>ITEM: []</p> <p>C/NO: []</p> <p>MADE IN CHINA</p>		<p>Quantity</p>	42		
<p>MODEL []</p> <p>QTY [] PCS</p> <p>N.W [] KG</p> <p>G.W [] KG</p> <p>SIZE []</p> <p>LOT NO []</p>	<p>Lot and/or Date Code</p>	BUNDLE			
	<p>Bundle Number</p>	Dimensions	X2	cm	
	<p>Shipping Box</p>		Y2	cm	
	<p>Part Number</p>		Z2	cm	
	<p>Other PN (if required)</p>	Quantity			
	Quantity	SHIPPING BOX			
	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 of Boxes	Quantity	250		
	Made in China	Approximate Weight	9 Kg.		

Revision	Description	By	Date
5-2013	Revised Operating Temperature	Ely Zofan	6/25/2013
6-2017	Updated mechanical drawing. Changed terminal height to 11.4 mm.	JL	7/6/2017

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