



**PRODUCT INFORMATION**



**Part #:**

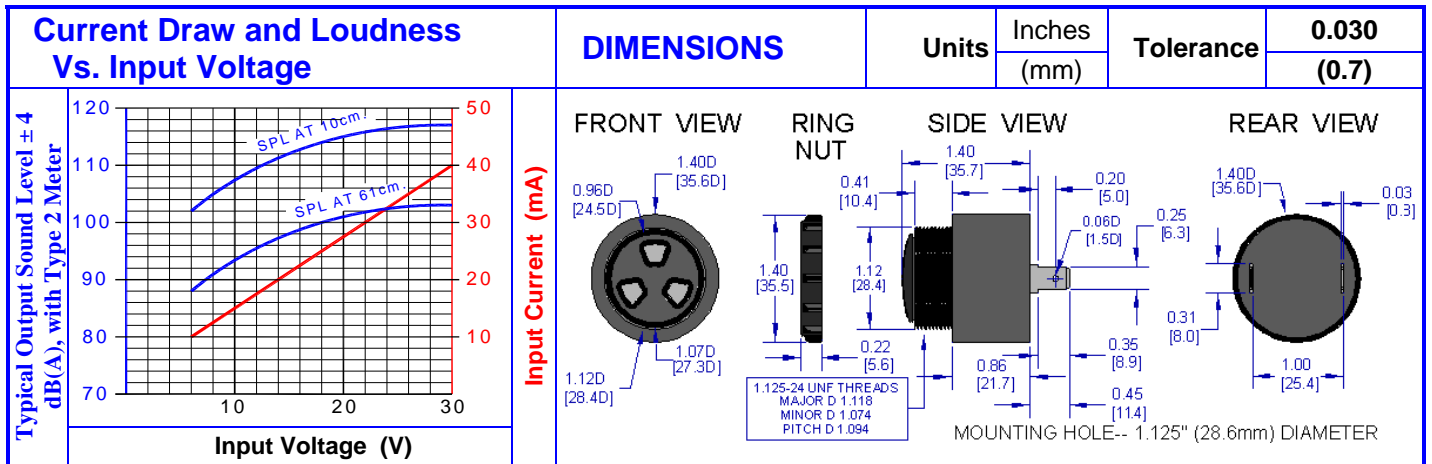
**CE-BX630AQS**

**Revision: 5-2017**



DESCRIPTION		FEATURES			
<b>Challenge Electronics B INTERMITTENT Tone, EXTRA Loud, 6 to 30 Vdc, A style case</b> Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of <b>103 dB(A)</b> at 30 Vdc at 61 cm, <b>2,900 Hz.</b> Output Frequency, <b>Quick Connect</b> Blades termination, <b>Slow Rate 1</b> pulse per second, Piezoelectric Alarm, <b>RoHS</b> Compliant		<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	Extra Loud, Slow Intermittent Tones		Pulse Rate	1 ± 10% Pulse per Second	
Operating Voltage	6 to 30 Vdc		Nominal Operating Voltage	24 Vdc	
Operating Frequency	2,900 ± 500 Hz.				
Typical Loudness	At Minimum Voltage	88 ± 5 dB(A), at 6 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	103 ± 3 dB(A), at 30 Vdc, 24 inches (61 cm), 25°C			
Typical Operating Current	At Minimum Voltage	10 mA at 6 Vdc	At Maximum Voltage	50 ± 5 mA 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 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 <b>Rated Power</b> , at <b>Maximum Rated Operating Temperature</b> *				
	240 hours continuous operation at <b>Rated Power</b> , at <b>Minimum Rated Operating Temperature</b> *				
Thermal Storage Temperature Test	96 hours storage at <b>Maximum Rated Storage Temperatures</b> *				
	96 hours storage at <b>Minimum Rated Storage Temperatures</b> *				
Thermal Shock Test	5 cycles of <b>Minimum and Maximum Operating Temperature</b> 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 <b>maximum rated voltage</b>			
	Continuous	250 hours continuous operation at <b>maximum rated Voltage</b> 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.  
Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.



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

Revision	Description	By	Date
4-2017	Changed Max current from 40mA to 50 ± 5 mA at 30 VDC	WS	2017-06-05
5-2017	Changed mechanical drawing. Terminal height to 11.4 mm.	WS	2017-07-05

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.  
 Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.