



# PRODUCT INFORMATION

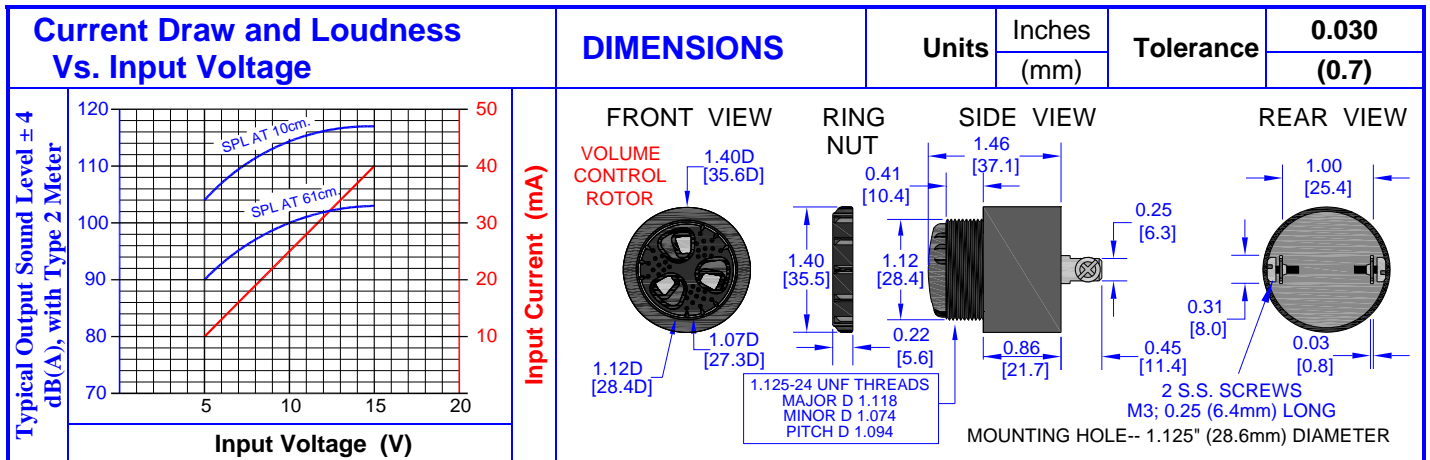
**Part #: CE-BX515AVSF**

**Revision: 3-2012**



DESCRIPTION		FEATURES			
<b>Challenge Electronics B INTERMITTENT Tone, EXTRA Loud, 5 to 15 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 15 Vdc at 61 cm, <b>2,900 Hz.</b> Output Frequency, <b>S</b> two 0.25" (6.4 mm) Blades with M3 0.25" (6.4 mm) long Stainless Steel Screws termination, <b>Fast Rate 3</b> pulses per second, Piezoelectric Alarm with a mechanical <b>Volume Control, 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, Fast Intermittent Tones		Pulse Rate	3 ± 10% Pulses per Second	
Operating Voltage	5 to 15 Vdc		Nominal Operating Voltage	12 Vdc	
Operating Frequency	2,900 ± 500 Hz.				
Typical Loudness	At Minimum Voltage	90 ± 5 dB(A), at 5 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	103 ± 3 dB(A), at 15 Vdc, 24 inches (61 cm), 25°C			
Volume Control	Maximum Sound Pressure Level can be restricted up to 20 dB from maximum output. (Note, The Volume Control Rotor may reduce maximum loudness) To install, simply, push the ROTOR onto the front of alarm until it snapped in place To attenuate sound, while alarm is turned on, rotate the ROTOR until maximum desired sound is achieved				
Typical Operating Current	At Minimum Voltage	10 mA at 5 Vdc	At Maximum Voltage	40 mA at 15 V dc	
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, 0.032Ø (0.8Ø mm) Wide, Brass, Electro-Tin plated With M3 0.25" (6.4 mm) long Stainless Steel Screws.			
Physical Dimensions	Length or Diameter (L /D)	1.46" (37.1 mm) Ø	Width (W)	Height (H)	1.46" (37.1 mm)
Approximate Weight	39 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 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 <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	Quantity	42																																									
		Lot and/or Date Code	BUNDLE																																										
<table border="1"> <tr><td colspan="2">ITEM: C/NO: MADE IN CHINA</td></tr> <tr><td>6</td><td>↑↑</td></tr> <tr><td>↑</td><td>↑</td></tr> <tr><td>↑</td><td>↑</td></tr> <tr><td colspan="2">MODEL</td></tr> <tr><td>QTY</td><td>PCS</td></tr> <tr><td>N.W</td><td>KG</td></tr> <tr><td>G.W</td><td>KG</td></tr> <tr><td>SIZE</td><td></td></tr> <tr><td>LOT NO</td><td></td></tr> </table>	ITEM: C/NO: MADE IN CHINA		6	↑↑	↑	↑	↑	↑	MODEL		QTY	PCS	N.W	KG	G.W	KG	SIZE		LOT NO		<table border="1"> <tr><td colspan="2">ITEM: C/NO: MADE IN CHINA</td></tr> <tr><td>6</td><td>↑↑</td></tr> <tr><td>↑</td><td>↑</td></tr> <tr><td>↑</td><td>↑</td></tr> <tr><td colspan="2">MODEL</td></tr> <tr><td>QTY</td><td>PCS</td></tr> <tr><td>N.W</td><td>KG</td></tr> <tr><td>G.W</td><td>KG</td></tr> <tr><td>SIZE</td><td></td></tr> <tr><td>LOT NO</td><td></td></tr> </table>	ITEM: C/NO: MADE IN CHINA		6	↑↑	↑	↑	↑	↑	MODEL		QTY	PCS	N.W	KG	G.W	KG	SIZE		LOT NO		Bundle Number	Dimensions	X2	cm
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Quantity	SHIPPING BOX																																												
Lot and/or Date Code		X3	35 cm																																										
PO Number	Dimensions	Y3	35 cm																																										
Net Weight		Z3	22.5 cm																																										
Gross Weighjt	Number of Bundles	1																																											
Box Number	Quantity	250																																											
of Number of Boxes	Approximate Weight	9 Kg.																																											
Made in China																																													

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