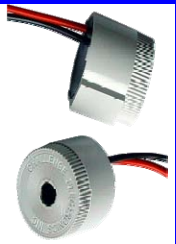




PRODUCT INFORMATION

Part #: **CE-C55W**

Revision: 0-2013

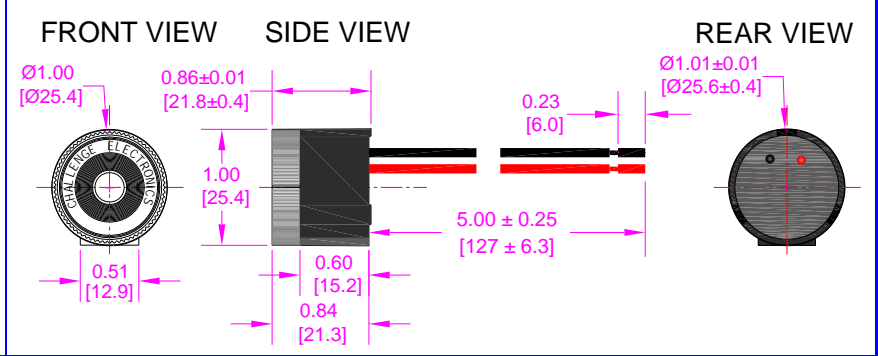
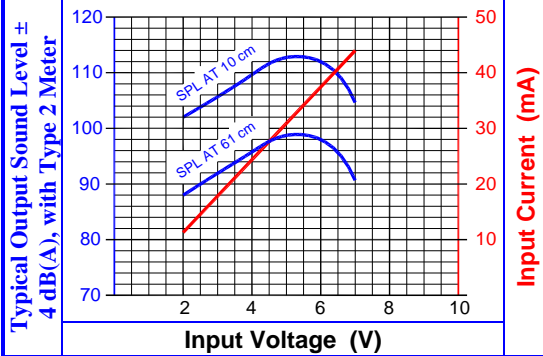


DESCRIPTION		FEATURES			
Challenge Electronics CONTINUOUS Tone; EXTRA Loud, 25.1 mm Diameter, 22.2 mm High; 2 to 6 Vdc with a relatively low sound frequency of 3,000 Hz. ; M Black style case; Sound Pressure Level of 98 dB(A) at 5 Vdc at 61 cm; Wire leads color coded, 18 AWG, 5.0" long termination; RoHS Compliant; Miniature Piezoelectric Alarm		<ul style="list-style-type: none"> ◆ Reliable Solid State Piezoelectric Technology ◆ Corrosion resistant Stainless Steel Diaphragm ◆ Flame Retardant Plastic ◆ Hermetically Sealed Alarm ◆ Water and Dust Proof per IP-68 ◆ RoHS Compliance ◆ ISO 9001 Certified 			
SPECIFICATIONS;					
Operating Mode	Extra Loud, Continuous Tones		Pulse Rate		
Operating Voltage	2.0 to 6.0 Vdc		Nominal Operating Voltage	5.0 Vdc	
Operating Frequency	3,000 ± 500 Hz.				
Typical Loudness	At Minimum Voltage	102 ± 7 dB(A), at 2 Vdc, 3.94 inches (10 cm), 25°C 88 ± 7 dB(A), at 2 Vdc, 24 inches (61 cm), 25°C			
	At Nominal Voltage	112 ± 5 dB(A), at 5 Vdc, 3.94 inches (10 cm), 25°C 98 ± 5 dB(A), at 5 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	112 ± 5 dB(A), at 6 Vdc, 3.94 inches (10 cm), 25°C 98 ± 5 dB(A), at 6 Vdc, 24 inches (61 cm), 25°C			
Typical Operating Current	10 mA at 2 Vdc		33 mA at 5 Vdc		38 mA at 6 Vdc
Operating Temperature	-30°C to +65°C		Storage Temperature	-40°C to +85°C	
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes				
Materials	Alarm Case	Plastic, "M" 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 (2) Wires Leads, 18 AWG (7X32), GXL Automotive, Copper, XPLE insulated, 5.0" (127 mm) long, Struck 0.235 (6.0 mm). Color coded: Red Positive and Black Negative			
Physical Dimensions	Length or Diameter (L/D)	1.00" (25.4 mm) Ø	Width (W)	Height (H)	0.88" (22.2 mm)
Approximate Weight	20 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				

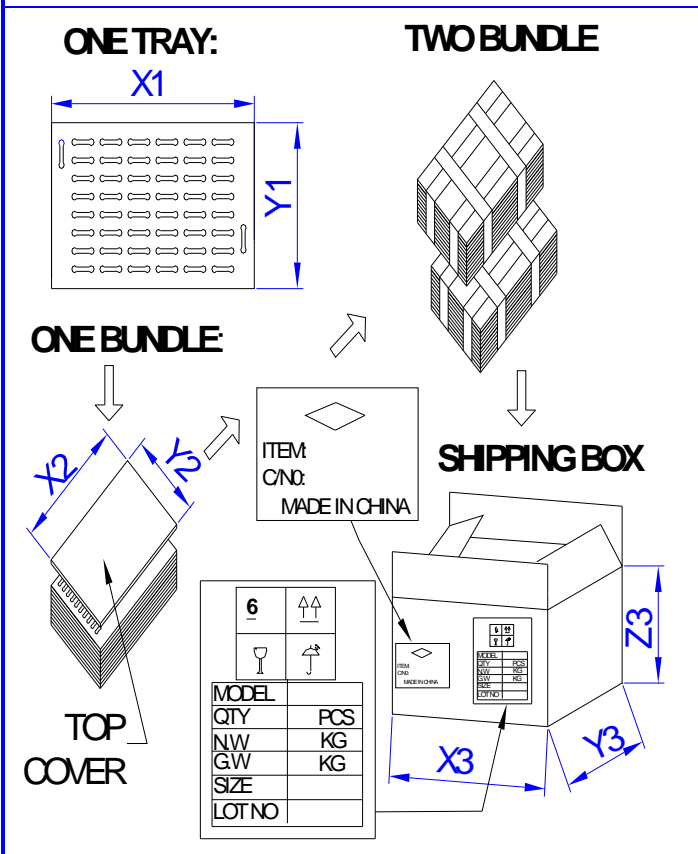
The information contained herein is believed to be correct, but no guarantee or warranty, express or implied, with respect to accuracy, completeness or results is extended and no liability is assumed.
 Challenge Electronics reserves the right to make changes in any specification, data or material contained herein.



Current Draw and Loudness Vs. Input Voltage	DIMENSIONS	Units	Inches	Tolerance	0.030
			(mm)		(0.7)



PACKAGING



Tray		
Dimensions	X1	cm
	Y1	cm
	Z1	cm
Quantity		
SHIPPING BOX		
Dimensions	X2	cm
	Y2	cm
	Z2	cm
Part Number		
Customer PN (if required)		
Number of Trays		
Quantity		
Lot and/or Date Code		
PO Number		
Net Weight		
Gross Weight		
Box Number		
of Number of Boxes		
Country of Origin	Made in China	

Revision	Description	By	Date