



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



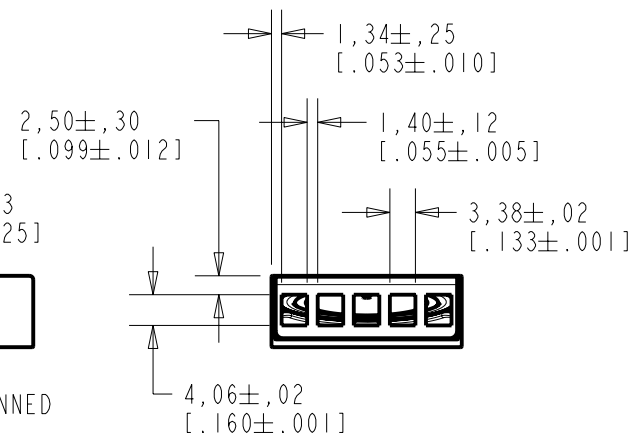
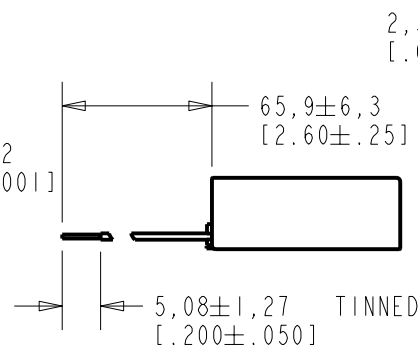
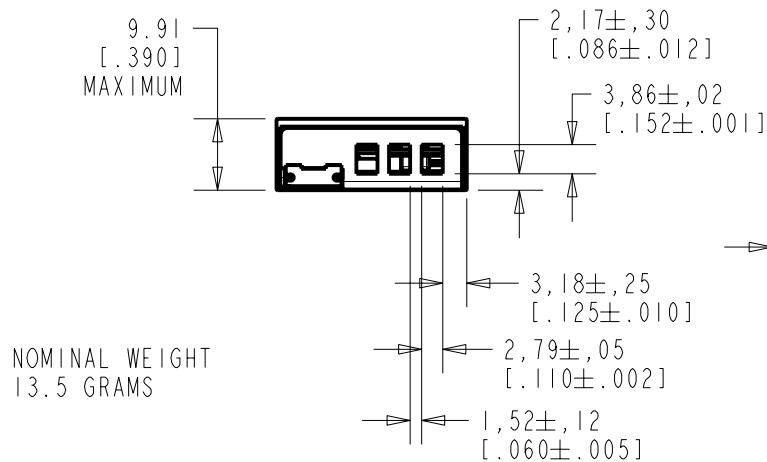
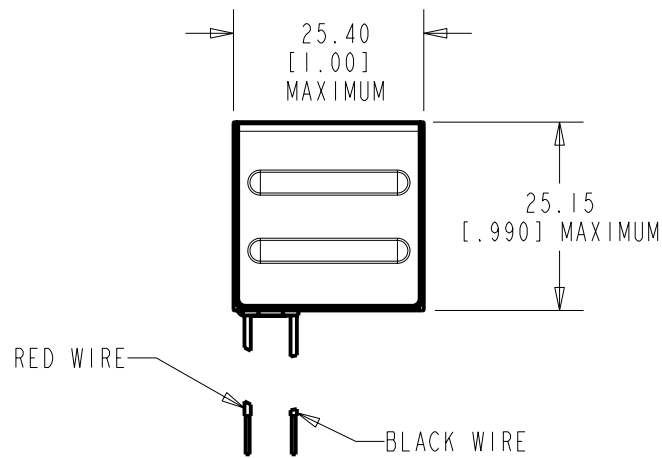
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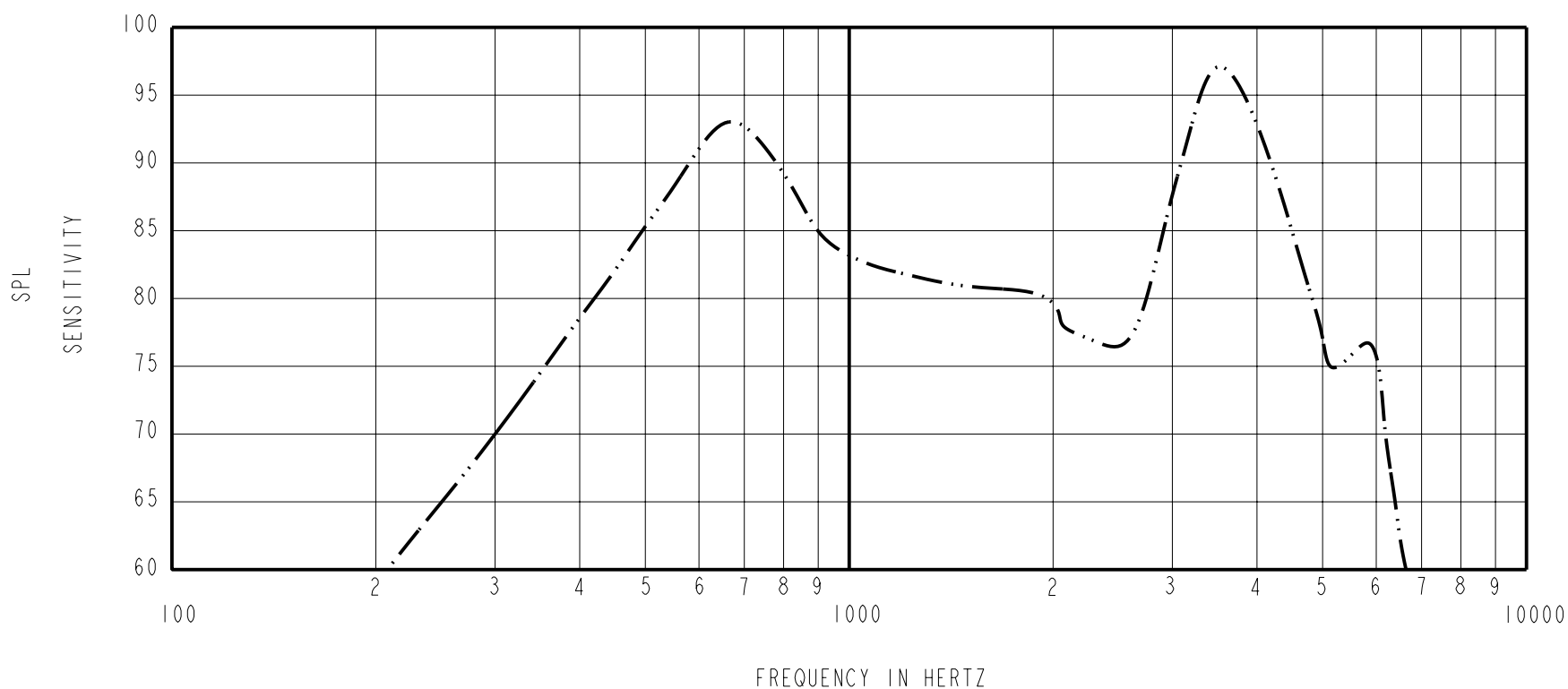




DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0101232	9-19-06	Released	A
SCALE: 1:1			DR. BY: LSY	DATE: 9-19-06
DO NOT SCALE DRAWING			CK. BY: GJP	DATE: 9-21-06
TITLE: SPEAKER		CB-23817-000	APP. BY: GJP	DATE: 9-21-06
OUTLINE DRAWING		SHT 1.1		



1. SENSITIVITY IN dB RELATIVE TO .0002 MICROBAR ($2 \times 10^{-5} \text{ N/m}^2$) FOR THE CONDITIONS SHOWN IN #2 & #3 BELOW.
2. MEASUREMENTS MADE ON AXIS AT 2.54 cm NORMAL TO THE SOUND PORT UNDER FREE FIELD (ANECHOIC) CONDITIONS. THE REAR PORT IS VENTED INTO A 160 cm³ DAMPED CAVITY FOR THIS MEASUREMENT.
3. ELECTRICAL SIGNAL (CONSTANT VOLTAGE):

SOURCE IMPEDANCE	< 0.5 OHMS
VOLTAGE APPLIED	0.59 VOLTS RMS

4. NOMINAL IMPEDANCE:

ACOUSTICAL CONDITIONS	SEE #2 ABOVE
ELECTRICAL CONDITIONS	SEE #3 ABOVE
IMPEDANCE AT 500 Hz	48 OHMS
IMPEDANCE AT 1kHz	48 OHMS

5. TOTAL HARMONIC DISTORTION:

ACOUSTICAL CONDITIONS	SEE #2 ABOVE
ELECTRICAL CONDITIONS	SEE #3 ABOVE
FREQUENCY	500 Hz
DISTORTION	10% MAXIMUM

6. NOMINAL DC RESISTANCE @ 20°C: 21.5 OHMS

7. SENSITIVITY

FREQUENCY	MIN.	MAX.
700	88.0	---
1000	80.0	---
4000	90.0	---

8. SURVIVES 50 FOOT SUBMERSION IN SALT WATER FOR 15 MINUTES AND 2 FOOT SUBMERSION IN SALT WATER FOR 24 HOURS. RETURN TO RATED SPECIFICATIONS AFTER DRY.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	A
A	MI0101232	9-19-06		
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				
TITLE: SPEAKER			CB-23817-000	DR. BY DATE
PERFORMANCE SPECIFICATION			SHT	LSY 9-19-06
				CK. BY DATE
				GJP 9-21-06
				APP. BY DATE
				GJP 9-21-06

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