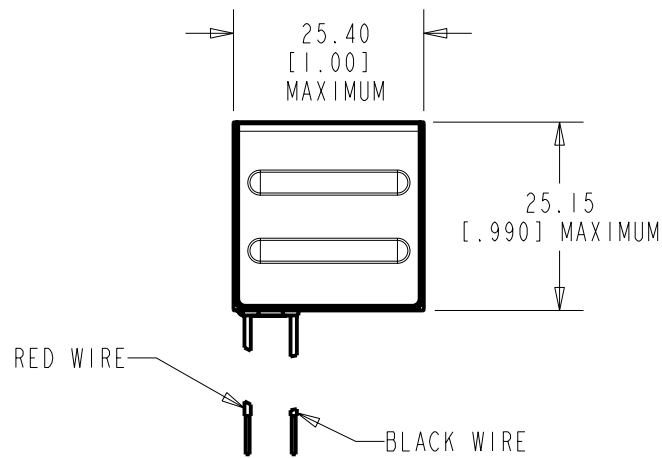
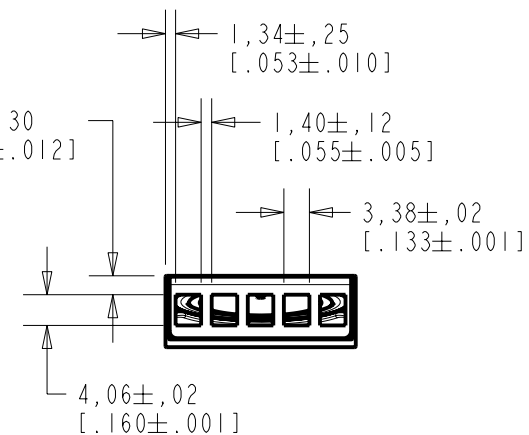
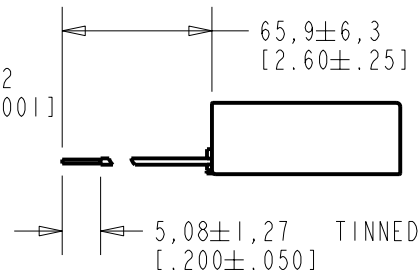
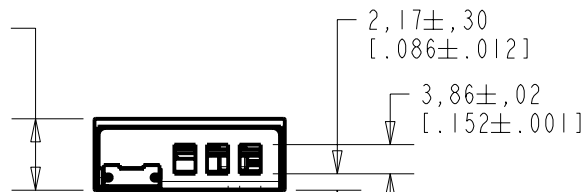


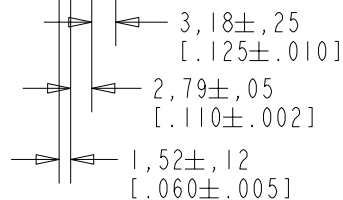
CB-23817-000  
SHT 1.1



9.91  
[.390]  
MAXIMUM



NOMINAL WEIGHT  
13.5 GRAMS



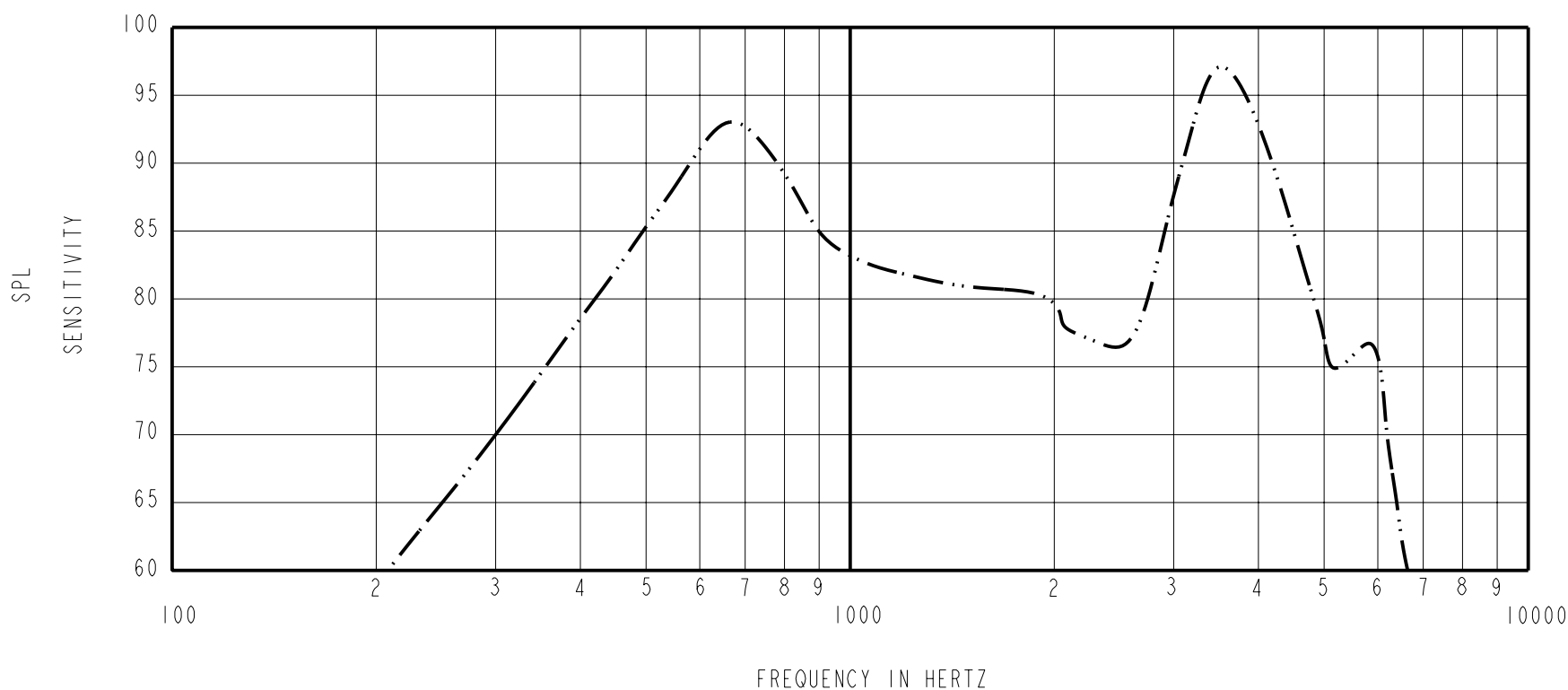
DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0101232	9-19-06	Released	A

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

SCALE:	1:1	
DO NOT SCALE DRAWING		
TITLE:	<b>SPEAKER</b>	<b>CB-23817-000</b>
	OUTLINE DRAWING	SHT 1.1

DR. BY	DATE
LSY	9-19-06
CK. BY	DATE
GJP	9-21-06
APP. BY	DATE
GJP	9-21-06



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 cm<sup>3</sup> 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
			<b>Released</b>	<b>A</b>
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			DR. BY	DATE
TITLE: <b>SPEAKER</b> PERFORMANCE SPECIFICATION			LSY	9-19-06
			CB-23817-000	
			GJP	9-21-06
			APP. BY	DATE
			GJP	9-21-06

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.