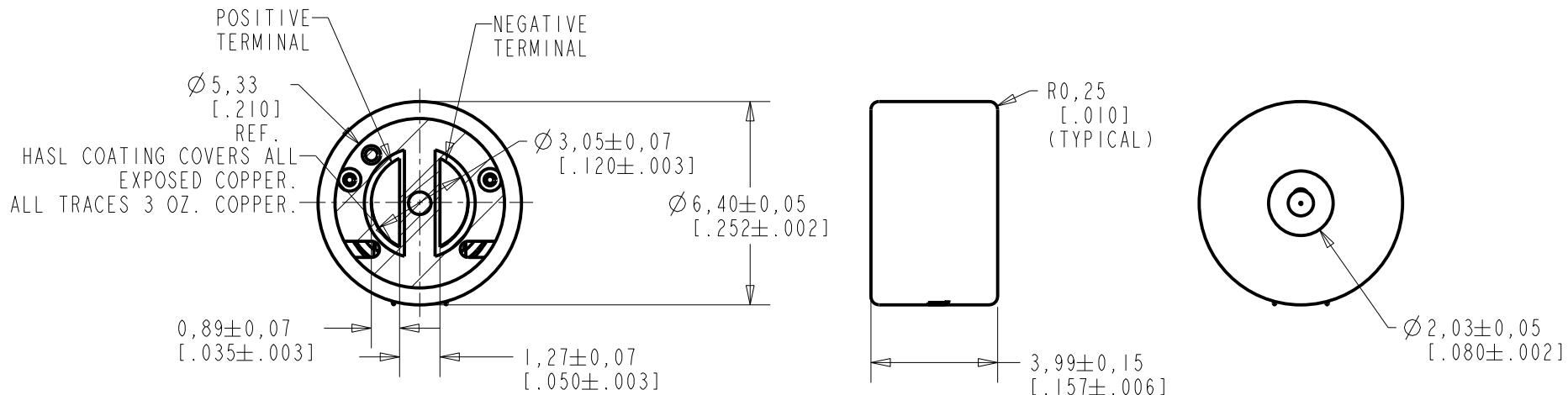


SR6438NWS-000

SHT 1.1

NOTES:

! A POSITIVE GOING VOLTAGE AT THE POSITIVE TERMINAL,
RELATIVE TO NEGATIVE TERMINAL, CAUSES A
DECREASE IN PRESSURE AT THE SOUND OUTLET.



SCALE 2:1

NOMINAL WEIGHT
0.25 GRAMS

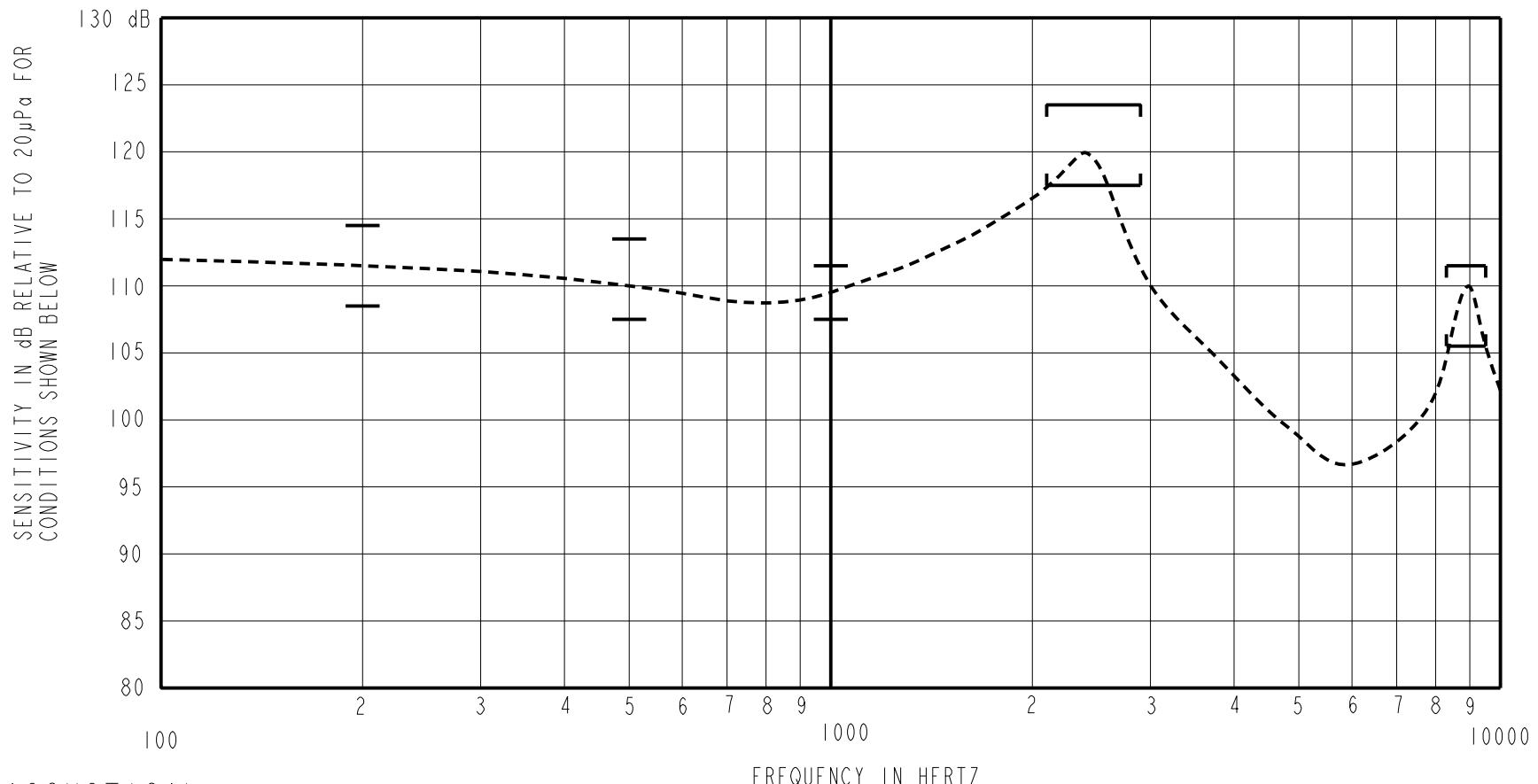
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
I	C10114347	2-22-13	Active	
H	C10113824	7-09-12		
G	C10109855	5-18-09		

SCALE:	5:1	DR. BY	DATE
	DO NOT SCALE DRAWING	MMM	7-5-07
TITLE:	MINI SIRENS	CK. BY	DATE
	SR6438NWS-000	GJP	7-12-07
	OUTLINE DRAWING	APP. BY	DATE
		GJP	7-12-07

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100 % TESTED



ACOUSTICAL

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3.
NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20 μ Pa. ALL OTHER VALUES
IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-1.0	+2.0	+5.0
500	-2.0	+1.0	+4.0
1000	-2.0	109.5	+2.0
2100-2900 PEAK	+8.0	+11.0	+14.0
8200-9400 PEAK	0.0	+3.0	+6.0

TABLE 1

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (V)	MAX (%)
843	0.1	0	5
1264	0.1	0	5
843	0.3	0	10
1264	0.3	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.1 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	7mm [.236"] LONG, 2.2mm [.039"] I.D.
COUPLER CAVITY	IEC 60318-4 ("711") COUPLER

TABLE 3

ELECTRICAL

DC RESISTANCE	25.0 Ohms \pm 10%
IMPEDANCE @ 500 Hz	36.5 Ohms \pm 15%
IMPEDANCE @ 1 kHz	55.5 Ohms \pm 15%

TABLE 4

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

MECHANICAL CHARACTERISTICS

SOLDER TYPE: SAC305 (LEAD FREE)
SOLDERING TEMPERATURE: 400°C FOR 2 SECONDS MAX.
STORAGE TEMPERATURE: -40°C TO 63°C
OPERATING TEMPERATURE: 0°C TO 63°C

AT EXTREME ENDS OF THE OPERATING TEMPERATURE THE
SENSITIVITY WILL NOT VARY MORE THAN \pm 3 dB FROM
ROOM TEMPERATURE

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I	C10114347	2-22-13	Active	I
H	C10113824	7-09-12		
G	C10109855	5-18-09		
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: MINI SIRENS			DR. BY MMM CK. BY GJP APP. BY GJP	DATE 7-5-07 DATE 7-12-07 DATE 7-12-07
SR6438NWS-000			SHT 2.1	
PERFORMANCE SPECIFICATION			GJP	

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