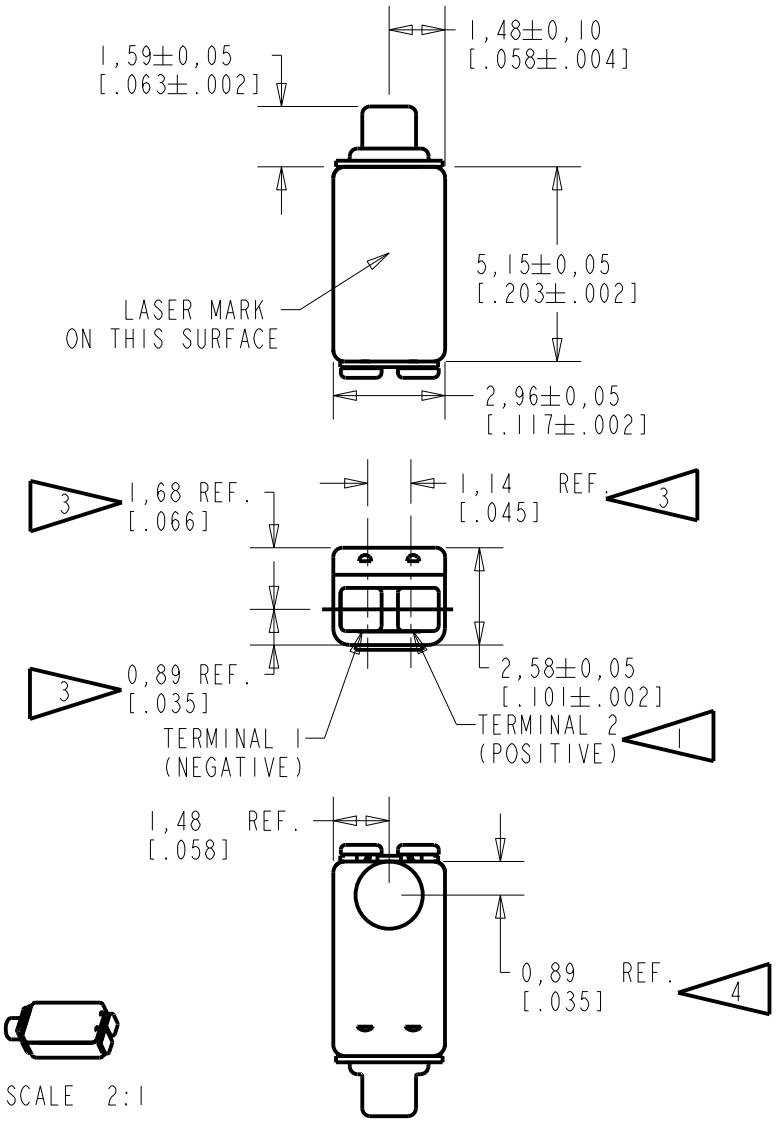
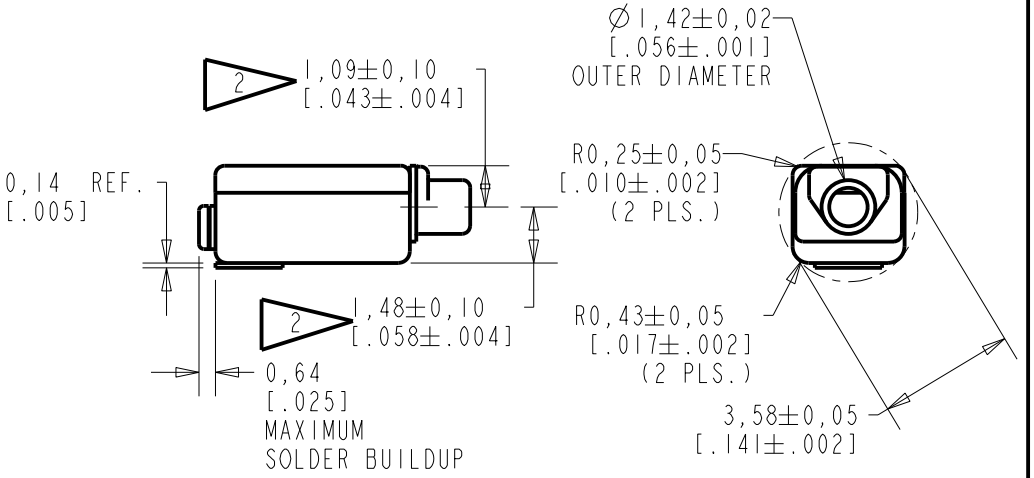
RAB-32257-000
SHT 1.1



NOTE:

1. A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES AN INCREASE IN PRESSURE AT THE SOUND OUTLET.
2. LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.
3. DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.
4. DAMPER SURFACE MUST BE KEPT CLEAN AND UNOBSTRUCTED TO ACHIEVE SPECIFIED PERFORMANCE.



SCALE 2:1

NOMINAL WEIGHT
.16 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	B
B	C10116665	2-26-15		
A	C10115824P	5-22-14		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

SCALE: 5:1

DO NOT SCALE DRAWING

TITLE: RECEIVER
OUTLINE DRAWING

RAB-32257-000
SHT 1.1

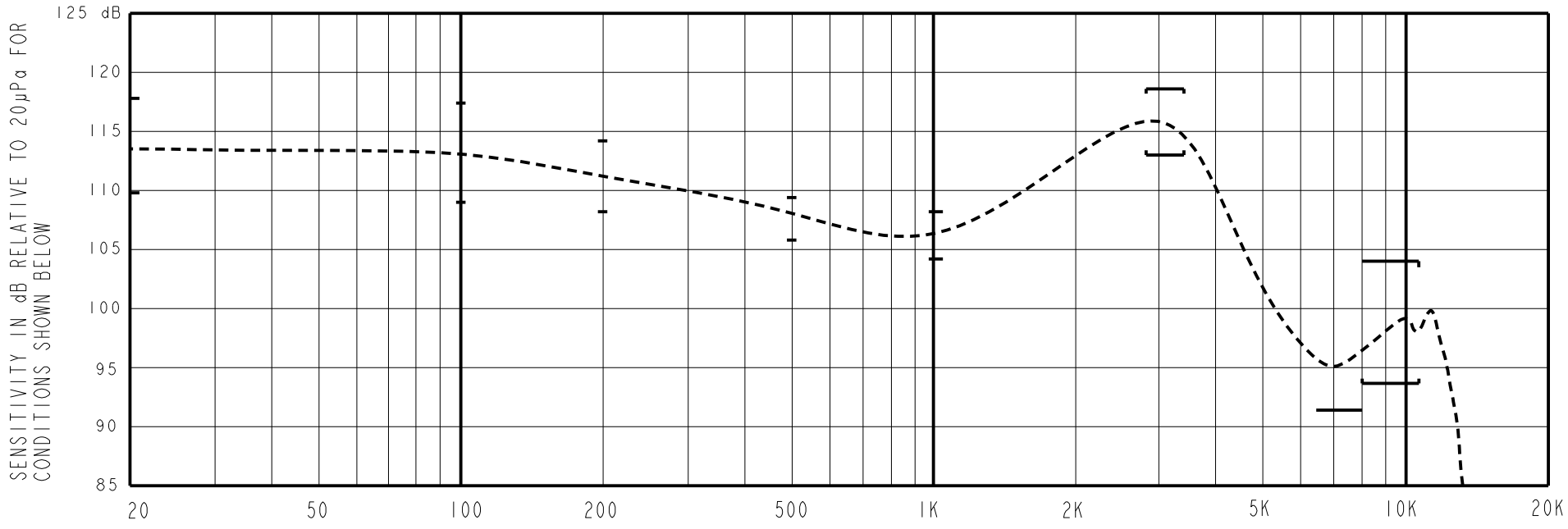
DR. BY	DATE
SSUN	5-22-14
CK. BY	DATE
GJP	5-22-14
APP. BY	DATE
GJP	5-22-14

THIS IS A MAGNETIC BALANCED ARMATURE RECEIVER INTENDED FOR USE IN EARPHONE APPLICATIONS. THE RECEIVER HAS A BACK VENT.

RAB-32257-000

SHEET

CONSTANT VOLTAGE DRIVE RESPONSE



ACOUSTICAL

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

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	20	+3.5	+7.5	+11.5
REL	100	+3.0	+7.0	+11.0
REL	200	+2.0	+5.0	+8.0
REL	500	-0.5	+2.0	+3.5
REF	1000	-2.0	106.2	+2.0
PEAK	2850-3450	+6.5	+9.5	+12.5
VALLEY	6400-8000	-15.0	---	---
PEAK	8000-11000	-12.0	-7.0	-2.0

TABLE 1.

TOTAL HARMONIC DISTORTION
DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	DRIVE (Vrms)	LIMIT (%)
50	0.115	5.8
1/3 PEAK 1 (TYP. 1050)	0.115	6.8
1/2 PEAK 1 (TYP. 1575)	0.115	4.8
1/3 PEAK 1 (TYP. 1050)	0.324	9.5
1/2 PEAK 1 (TYP. 1575)	0.324	9.5

TABLE 2.

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.115 Vrms
SOURCE IMPEDANCE	< 1 Ω
TUBING	TUBELESS, KNOWLES TOOL NUMBER T8688
COUPLER CAVITY	IEC 60318-4 (IEC 711)

TABLE 3.

ELECTRICAL

DC RESISTANCE	22.0 Ω ±10%
IMPEDANCE @ 500 Hz	33.0 Ω ±15%
IMPEDANCE @ 1 kHz	49.5Ω ±15%
INDUCTANCE @ 500 Hz	7.8 mH TYPICAL

TABLE 4.

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

MECHANICAL

PORT LOCATION: I2S

SOLDER TYPE: ROHS COMPLIANT
SAC305

TEMPERATURE
OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1/-3 dB FROM 0°C TO 63°C
STORAGE: -40°C TO 63°C

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	B

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

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: RIE ASSEMBLY
PERFORMANCE SPECIFICATION

RAB-32257-000
SHT

DR. BY	DATE
SSUN	5-22-14
CK. BY	DATE
GJP	5-22-14
APP. BY	DATE
GJP	5-22-14