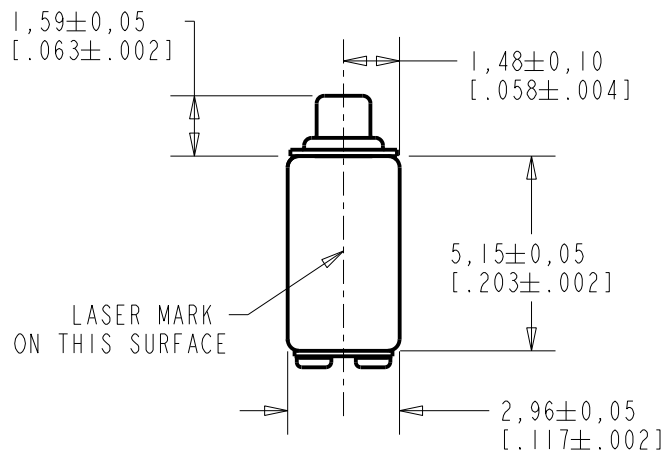
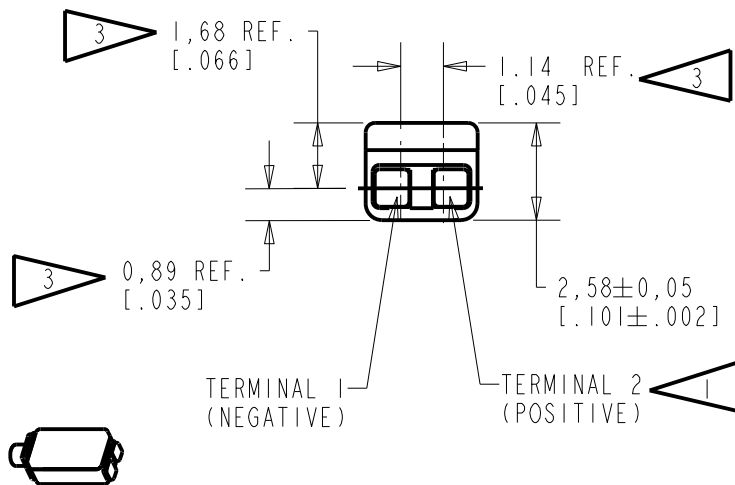


RAB-32057-000

SHT 1.1

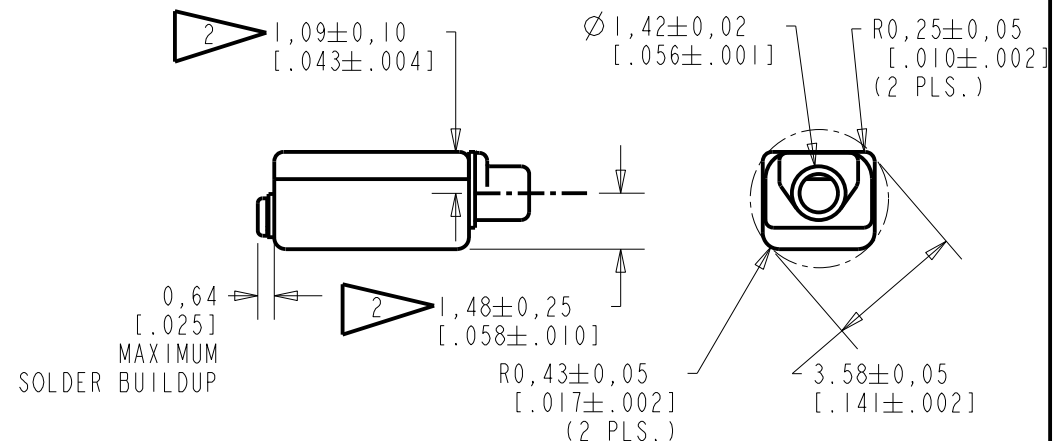


- NOTE:
- 1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.
 - 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.
 - 3 DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.



SCALE 2:1

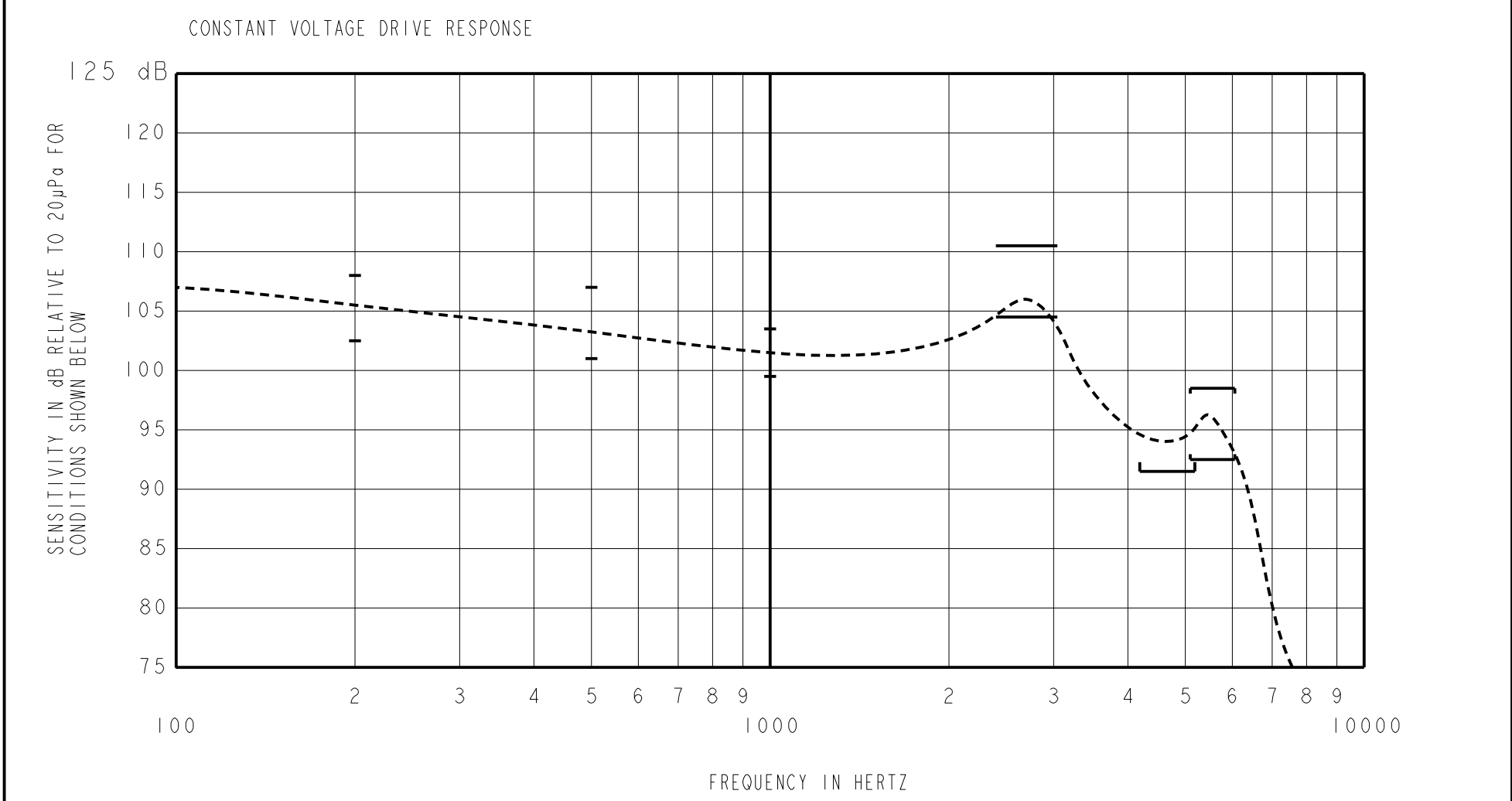
NOMINAL WEIGHT .16 GRAMS DIMENSIONS IN MILLIMETERS [INCHES]



RED CONTROLLED

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	CI0116714	3-26-15	Active	B
A	CI0115003	8-8-13		
SCALE: 5:1			DR. BY JL	DATE 9-23-14
DO NOT SCALE DRAWING			CK. BY GJP	DATE 9-24-14
TITLE: RECEIVER			APP. BY GJP	DATE 9-24-14
OUTLINE DRAWING			RAB-32057-000 SHT 1.1	

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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	200	+1.0	+4.0	+7.0
REL	500	-0.5	+2.0	+5.5
REF	1000	-2.0	101.5	+2.0
PEAK 1	2450-3050	+3.0	+4.5	+9.0
VALLEY	4200-5200	-10.0	---	---
PEAK 2	5100-6100	-8.0	-5.0	-2.0

TABLE 1.

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

FREQUENCY (Hz)	DRIVE (Vrms)	LIMIT (%)
1/3 PEAK1 (TYP. 917)	0.180	3
1/2 PEAK1 (TYP. 1375)	0.180	3
1/3 PEAK1 (TYP. 917)	0.507	8
1/2 PEAK1 (TYP. 1375)	0.507	8

TABLE 2.

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.180 Vrms
SOURCE IMPEDANCE	< 1 Ω
TUBING	10 mm (.394) LONG, 1 mm (.039) ID.
COUPLER CAVITY	2 CC SIMULATED ANSI S3.7 TYPE HA-3,(IEC 60318-5)

TABLE 3.

ELECTRICAL

DC RESISTANCE	65 Ω ±10%
IMPEDANCE @ 500 Hz	90 Ω ±15%
IMPEDANCE @ 1 kHz	140 Ω ±15%
INDUCTANCE @ 500 Hz	19.8 mH TYPICAL

TABLE 4.

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

MECHANICAL

PORT LOCATION: 12S

SOLDER TYPE: ROHS COMPLIANT
SAC305

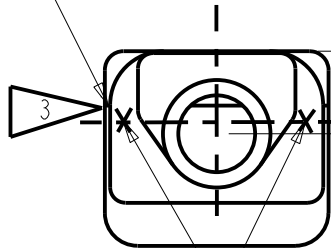
TEMPERATURE
OPERATING: SENSITIVITY WILL NOT VARY MORE THAN
+1/-3 dB FROM 0°C TO 63°C
STORAGE: -40°C TO 63°C

RED CONTROLLED

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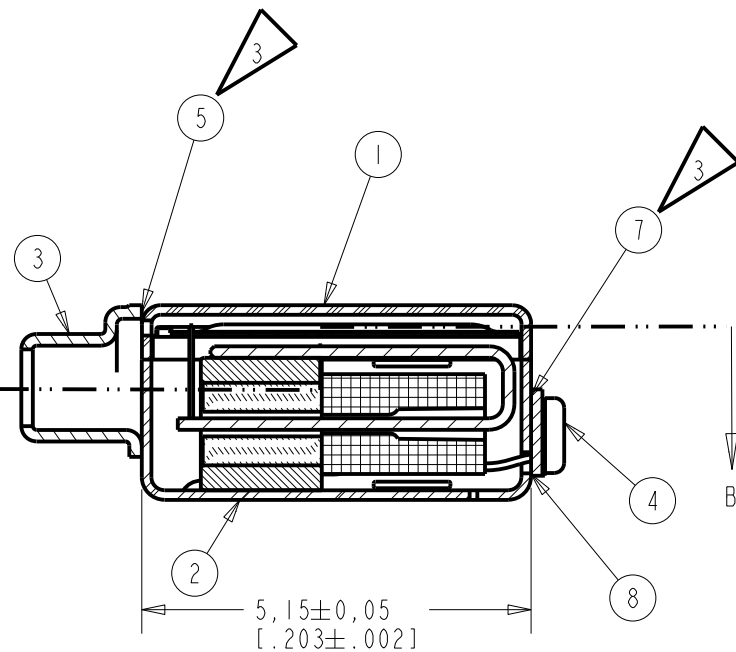
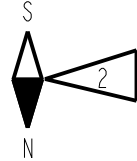
RAB-32057-000

COVER
MISALIGNMENT
 $\pm 0,02$
[.001]



WELD LOCATION

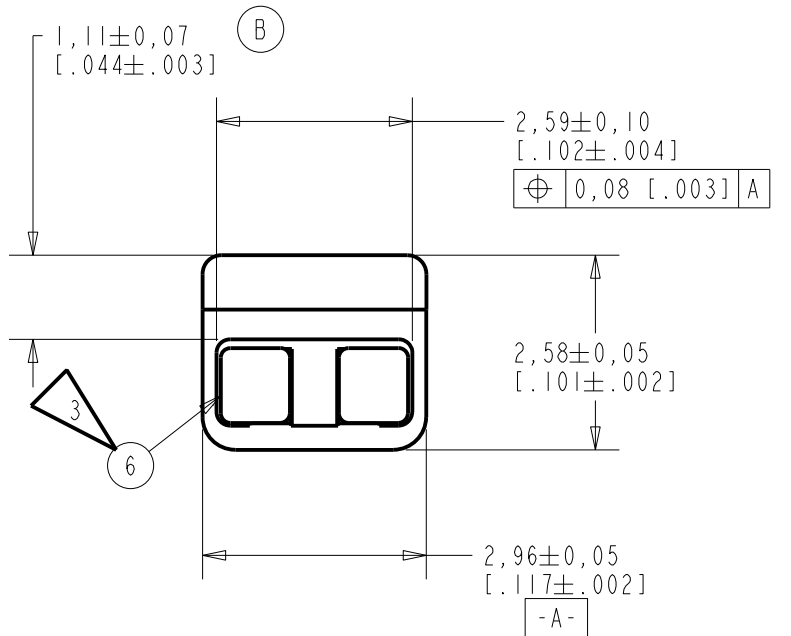
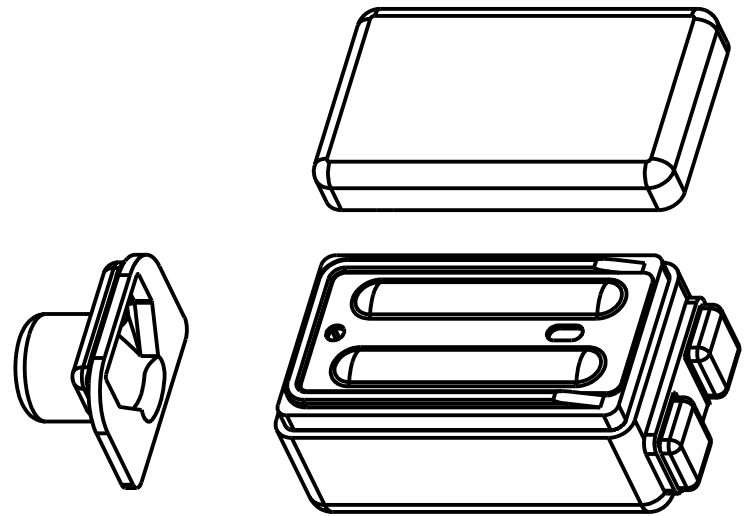
$1,09 \pm 0,10$
[.043 $\pm$.004]



SECTION B-B

$1,48 \pm 0,10$
[.058 $\pm$.004]

$1,59 \pm 0,05$
[.063 $\pm$.002]



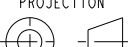
SECTION A-A

RED CONTROLLED

DIMENSIONS IN MILLIMETERS [INCHES]

RELEASE LEVEL		REVISION	
Active		B	
SCALE: 10:1		DO NOT SCALE DRAWING	
DR. BY	DATE	CH. BY	DATE
JL	9-23-14	GJP	9-24-14
APP. BY	DATE	RAB-32057-000	
GJP	9-24-14	SHEET 3.1	

- NOTES:
- ITEMS NUMBERS (SHOWN THUS ) ON DRAWING CORRESPOND WITH ITEM NUMBERS ON BILL OF MATERIAL.
 - ORIENTATION OF COMPASS NEEDLE IN THE MAGNETIZING FIELD.
 - AIRTIGHT SEAL ALL AROUND.
 - UNITS SHALL BE FREE OF VISUAL DEFECTS SUCH AS SCRATCHES, ABRASION, SLUG MARKS, OIL, DIRT, OTHER CONTAMINATIONS, ETC., NOTICABLE WITH THE UNAIDED EYE,
 - NO CEMENT ON SOLDER PADS.
 - MIN. TUBE WELD STRENGTH OF 4.9N WITH FORCE APPLIED IN DIRECTION SHOWN.
 - NO THRU HOLES OR WELD FLASH AT COVER WELD.

MATERIAL				SEE BILL OF MATERIAL				FINISH				- - -				SCALE:				10:1				DO NOT SCALE DRAWING											
REF.	A	B	XD-xxxx	C.O.	C10116251	C.O.	C10116714	UPDATE A DIMENSION. 4-21-15 JL		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	THIRD ANGLE PROJECTION 	KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.								DR. BY		DATE													
																				JL		9-23-14													
																				CH. BY		DATE													
																				GJP		9-24-14													
																APP. BY		DATE																	
																GJP		9-24-14																	
												TITLE								RECEIVER ASSEMBLY								RAB-32057-000							
																												SHEET				3.1			

RAB-32057-000			KNOWLES ELECTRONICS			RAB-32057-000		
Sheet 4.1			ITASCA, ILLINOIS U.S.A.			Sheet 4.1		
Dr. By Date			Subject:			Revision		
Ch. JLP 9-23-14			RECEIVER ASSEMBLY			B		
App. GJP 9-24-14								
COL. 1			2			3		
Part or Dwg. no.			Tot. Req.			Nomenclature:		
RAB-1006			1			DIAPHRAGM & COVER ASSEMBLY		
RAB-1030-004			1			MOTOR & CUP ASSEMBLY		
FC-006			1			TUBE		
285-007-001			A/R			SOLDER		
13-825-3145			A/R			CEMENT		
13-825-3153			A/R			CEMENT		
13-825-3160			A/R			CEMENT		
113-113			1			TAB		
RED CONTROLLED								
REVISION			RAB-32057-000 Sheet 4.1					
A c.o. C10116251			PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTY OF KNOWLES ELECTRONICS, LLC. OR ITS AFFILIATED ENTITIES. IT IS ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, USED, OR DISCLOSED TO ANY THIRD PARTY PARTIALLY OR WHOLLY IN ANY MANNER WITHOUT PRIOR WRITTEN PERMISSION OF, AND MUST BE RETURNED UPON REQUEST BY, KNOWLES ELECTRONICS, LLC.					
B c.o. C10116714								
RAB-1030-004 WAS RAB-1004-004; 113-113 WAS 113-083. JLP 4-21-15			REV: D					

PRODUCTION TEST INFORMATION

SOFTWARE REVISION PXI FCAAT	SOFTWARE 2.60 MIN.
HARDWARE REVISION PXI FCAAT	KE 1065E.006 MIN.
FCAAT COUPLER	T8049
FCAAT TEST BOARD	T10736

PHASE

FREQUENCY (Hz)	AC DRIVE (Vrms)	DEGREE LIMIT	
		MIN.	MAX.
500	0.180	0	90

BUZZ

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (DC mA)	FREQUENCY RANGE (Hz)	HIGH LIMIT (dB SPL)
200	0.507	0	3550-6750	63

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C10116714	3-26-15	Active	B
A	C10115003	8-8-13		
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 JL	DATE 9-23-14
TITLE: RECEIVER			CK. BY GJP	DATE 9-24-14
PERFORMANCE SPECIFICATION			RAB-32057-000 SHT 5.1	APP. BY GJP
				DATE 9-24-14

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