

FREQUENCY IN HERTZ

ACOUSTICAL

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

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	200	+ . 0	+4.0	+7.0
REL	500	-0.5	+2.0	+5.5
REF	1000	-2.0	101.5	+2.0
PEAK I	2450-3050	+ 3 . 0	+4.5	+9.0
VALLEY	4200-5200	-10.0		
PEAK 2	5100-6100	-8.0	-5.0	-2.0

TABLE I.

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

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

TABLE 2.

TABLE 3.

TEST CONDITIONS

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

ELECTRICAL

DC RESISTANCE	65 Ω ±10%
IMPEDANCE @ 500 Hz	90 Ω ±15%
IMPEDANCE @ I 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

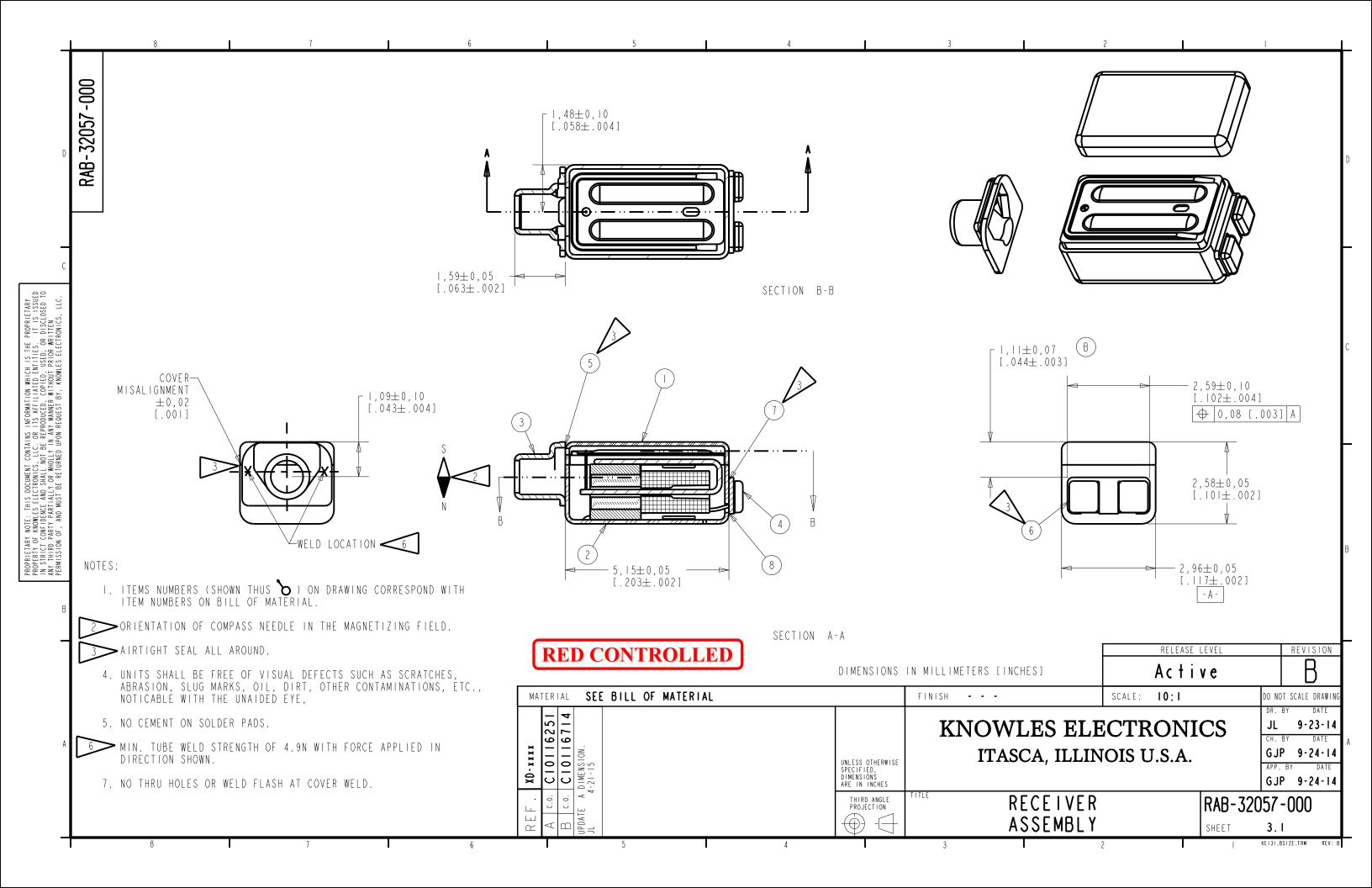
RED CONTROLLED

	Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
	В	C10116714	3-26-15	l Active	I K
	А	C10115003	8-8-13	714114	
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KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION | DR. BY

CRITERIA, ELIMINATI	JL CK. BY	9 - 23 - 14 DATE		
TITLE:	RECEIVER	RAB-32057-000	GJP APP. BY	9 - 2 4 - 1 4 Date
	PERFORMANCE SPECIFICATION	SHT 2.1	GJP	9 - 24 - 14



	RAB-32057-000		KNOWLES ELECTRONICS		RAB-32057	7-0	00
	Sheet 4. I		ITASCA, ILLINOIS U.S.A.		Sheet 4	. 1	
	By Date Dr. JL 9-23-14 Ch. GJP 9-24-14 App. GJP 9-24-14	Subje	RECEIVER ASSEMBLY	B	Release Le Activ		
	COL. I	2	3		4	No.	No.
	Part or Dwg. no.	Tot. Req.	Nomenclature:		Applicable Specs or Remarks	l tem	Line
	RAB-1006	T	DIAPHRAGM & COVER ASSEMBLY			Ι	1
\bigcirc B	RAB-1030-004	1	MOTOR & CUP ASSEMBLY			2	2
	FC-006	1	TUBE			3	3
	285-007-001	A/R	SOLDER			4	4
	13-825-3 45	A/R	CEMENT			5	5
	13-825-3153	A/R	CEMENT			6	6
	13-825-3160	A/R	CEMENT			7	7
(B)	3 - 3	1	ТАВ			8	8

RED CONTROLLED

REVISION
A c.o. CIOII6251
B c.o. CIOII6714
RAB-1030-004 WAS
RAB-1034-004;
I13-113 WAS 113-083.
JL 4-21-15

RAB-32057-000 Sheet 4.1

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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

<u>-</u>			
FREQUENCY	AC DRIVE	DEGREE LI	MIT
(Hz)	(Vrms)	MIN.	MAX.
500	0.180	0	90

BU77

DULL				
FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (DC mA)	FREQUENCY RANGE (Hz)	HIGH LIMIT (dB SPL)
200	0.507	0	3550-6750	6.3

RED CONTROLLED

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
В	C10116714	3 - 26 - 15	l Active	I K
А	C10115003	8 - 8 - 1 3		

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION DR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

 JL
 9-23-14

 ck. BY
 DATE

 GJP
 9-24-14

 APP. BY
 DATE

 GJP
 9-24-14

DATE

TITLE:	RECEIVER	RAB-32057-000
	PERFORMANCE SPECIFICATION	SHT 5.1