

FREQUENCY IN HERTZ

## ACOUSTICAL

#### SENSITIVITY\*

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 3. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20  $_\mu P \alpha.$  ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	- 3.0	-   . 0	+   . 0
500	-2.0	0.0	+2.0
1000	-2.0	96.5	+2.0
3000-4000 PEAK	+3.0	+6.0	+9.0
6700-7700 PEAK	-0.5	+2.5	+5.5

MECHANICAL

PORT LOCATION: 12S SOLDER TYPE: SAC305 TEMPERATURE OPERATING: SENSITIVITY WILL NOT VARY MORE THAN +1 / -3 dB FROM -17°C TO 63°C. STORAGE: -40°C TO 63°C.

**RED CONTROLLED** 

TABLE I

#### TOTAL HARMONIC DISTORTION\*

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (V)	LIMIT (%)
1166	.094	0	5
1750	. 0 9 4	0	5
1750	. 265	0	0

TABLE 2

### TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	.094 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<0.2 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

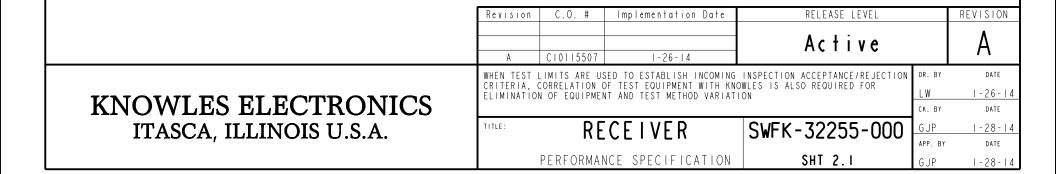
TABLE 3

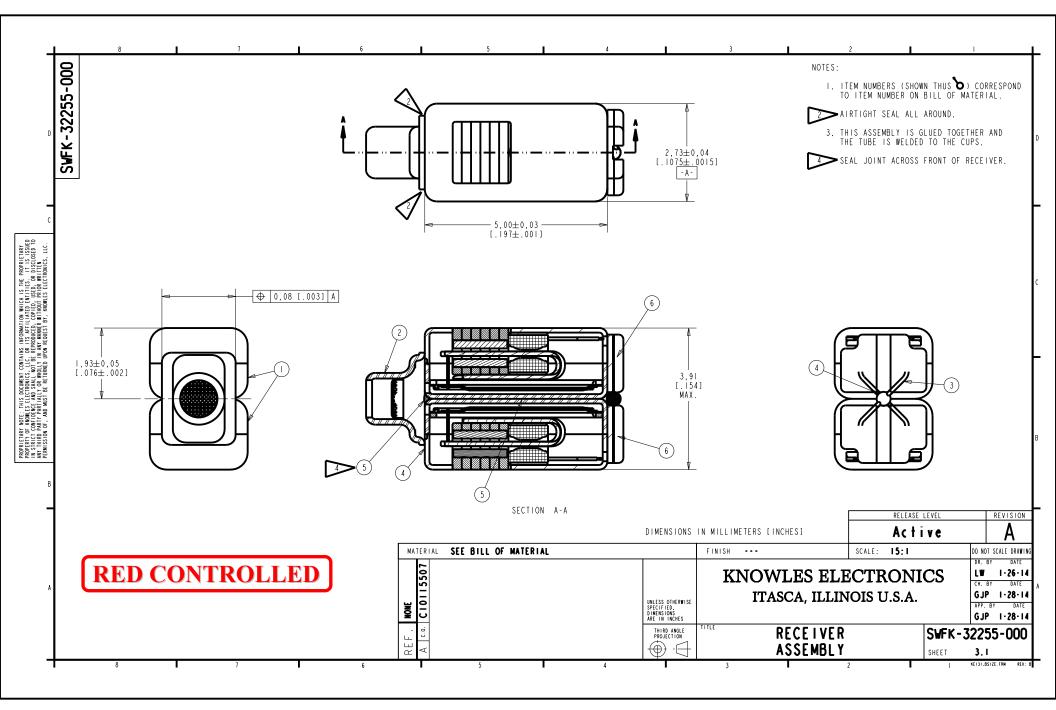
### ELECTRICAL

DC RESISTANCE	6.3 Ohms ± 10%*
IMPEDANCE @ 500 Hz	6.6 Ohms ± 20%
IMPEDANCE @ IkHz	7.0 Ohms ± 20%

TABLE 4

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





SWFK-32255-000 Sheet 4.1	KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.	SWFK-32255-000 Sheet 4.1
By Date Dr. LW 1-26-14 Ch. GJP 1-28-14 App. GJP 1-28-14	Subject: RECEIVER ASSEMBLY A	Release Level Active
COL. I Part or Dwg. no.	2 3 Tot. Req. Nomenclature:	Applicable Specs &
WBFK-31142-000 FH-172-015	2 RECEIVER ASSEMBLY I TUBE & SCREEN ASSEMBLY	I I   2 2
03-0 2  3-825-3 45	A/R WIRE A/R CEMENT	3 3   4 4
3-637   285-007-22	A/R CEMENT A/R SOLDER LEAD FREE	5 5 6 6

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VISION	C10115507	SWFK-32255-000 Sheet 4.1
RE	V C.0	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.

# SWFK-32255-000 SHEET 5.1

### PRODUCTION TEST INFORMATION

SOFTWARE REVISION PXI FCAAT	SOFTWARE 2.5 MIN.
HARDWARE REVISION PXI FCAAT	KE 1065E.008 MIN.
TEST BOARD	T 4 5 3 0
TEST COUPLER	T8049

### <u>Phase test</u>

FREQUENCY	AC DRIVE	DEGREE LIMIT		
(Hz)	(mArms)	MIN	MAX	
500	5.8	40	220	

# **RED CONTROLLED**

	Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
	A	CI0115507	- 26 -   4	Active		А
KNOWLES ELECTRONICS	CRITERIA,	CORRELATION C	ED TO ESTABLISH INCOMING OF TEST EQUIPMENT WITH KNC IT AND TEST METHOD VARIATI	INSPECTION ACCEPTANCE/REJECTION WLES IS ALSO REQUIRED FOR ON	DR. BY LW CK. BY	DATE   - 26 -   4 DATE
ITASCA, ILLINOIS U.S.A.	TITLE:	RE	CEIVER	SWFK-32255-000	GJP app. by	- 28 -   4 DATE
		PERFORMAN	ICE SPECIFICATION	SHT 5.1	GJP	-28- 4