

TYPE I

SWFK-32254-000 SHEET 2.1

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

CONSTANT VOLTAGE DRIVE CONDITIONS.



## ACOUSTICAL

SENSITIVITY

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

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	- 3.0	-1.0	+   . 0
500	-2.0	0.0	+2.0
1000	-2.0	97.0	+2.0
3000-4000 PEAK	+5.0	+8.0	+  .0
6600-7600 PEAK	0.0	+3.0	+6.0

TABLE I

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.

DATE

7-16-15 DATE

7-16-15

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (V)	LIMIT (%)
1166	. 0 9 4	0	5
1750	. 0 9 4	0	5
1750	. 265	0	10

TABLE 2

## TEST CONDITIONS

1201 00110110110	
NOMINAL SOURCE VOLTAGE	0.94 V rms, 0 mA DC BIAS
SOURCE IMPEDANCE	<0.2 Ohm
TUBING	10 mm [.394"] LONG,   mm [.039"]   1.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	6.8 Ohms $\pm$ 20%	MEASURED WITH 5.8 mArms, Odc DRIVE
IMPEDANCE @ IkHz	7.2 Ohms ± 20%	MEASURED WITH 5.8 mArms, Odc DRIVE

TABLE 4

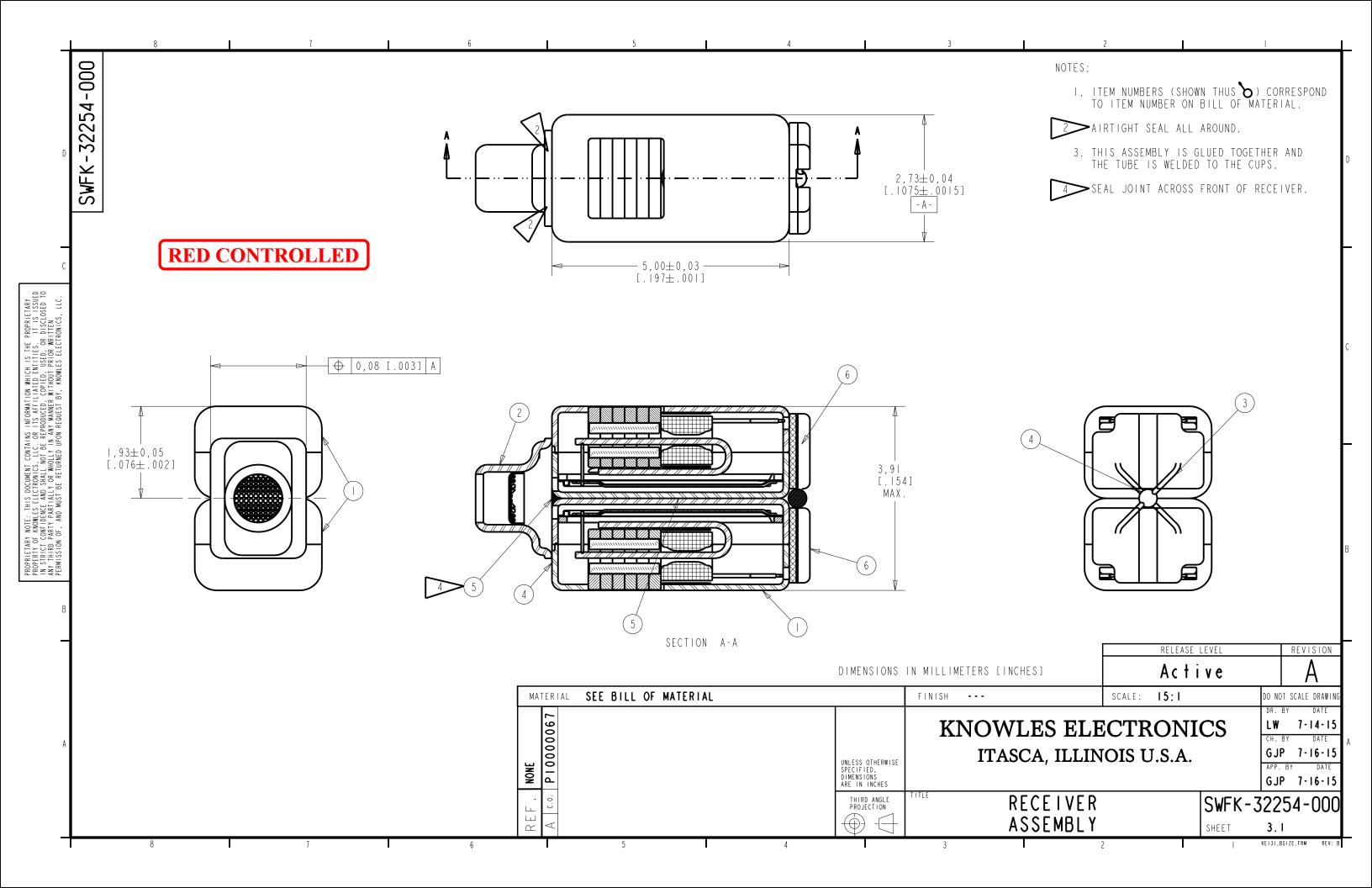
ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Active		Δ
А	P10000067	7 - 14 - 15	ACTIVO		$\overline{}$
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION			DR. BY	DATE	
		OF TEST EQUIPMENT WITH KN	OWLES IS ALSO REQUIRED FOR	I W	7 - 14 - 15

**KNOWLES ELECTRONICS** ITASCA, ILLINOIS U.S.A.

ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION TITLE:

SWFK-32254-000 RECEIVER GJP PERFORMANCE SPECIFICATION SHT 2.1 GJP



SWFK-32254-000		SWFK-32254-000	
Sheet <b>4.1</b>	ITASCA, ILLINOIS U.S.A.	Sheet <b>4.</b> I	
By Date Dr. LW 7-14-15 Ch. GJP 7-16-15 App. GJP 7-16-15	RECEIVER ASSEMBLY  Revision A	Release Level Active	
COL. I	2 3	4 . o N .	
Part or Dwg. no.	Tot. Req. Nomenclature:	Applicable Specs \ ⊕ ⊕ or Remarks ± -	
WBFK-31142-000	2 RECEIVER ASSEMBLY		
FH-172-022	TUBE ASSEMBREEN ASSEMBLY	2 2	
103-012	A/R WIRE	3 3	
13-825-3 45	A/R CEMENT	4 4	
13-637	LOCTITE 496 CEMENT	5 5	
285-007-221	SOLDER LEAD FREE	6 6	

# RED CONTROLLED

SWFK-32254-000 Sheet 4.1

#### PRODUCTION TEST INFORMATION

SOFTWARE REVISION PXI FCAAT	SOFTWARE 2.5 MIN.
HARDWARE REVISION PXI FCAAT	1065E.008 MIN
TEST BOARD	T4530
TEST COUPLER	T8049

#### PHASE TEST

FREQUENCY AC DRIVE		DEGREE LIMIT		
( Hz )	(mArms)	MIN	MAX	
500	5.8	140	220	

# RED CONTROLLED

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Active		ΙΔ
Α	P10000067	7-14-15			/ \
WHEN TEST I	LIMITS ARE U	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE

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 LW

RECEIVER

PERFORMANCE SPECIFICATION

SWFK-32254-000
SHT 5.1

LW 7-14-15
CK. BY DATE
GJP 7-16-15
APP. BY DATE
GJP 7-16-15