WBFK-31142-000 SHT I.I NOTES: ➤ A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL I, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET. ➤ LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE 5.00 ± 0.03 SURFACE, NOT TO BE USED TOGETHER. $[.197\pm.001]$ $-2,73\pm0,04$ $[.1075\pm.0015]$ $1,37\pm0,03$ [.054±.001] → 1,27±0,05 $0,43\pm0,03$ $[.050\pm.002]$ $> 0.81 \pm 0.05$ $[.017 \pm .001]$ $-0,41\pm0,03$ $[.032 \pm .002]$ $[.016 \pm .001]$ (4 PLS) $,93\pm0,05$ $[.076\pm.002]$ 0,51 $2,92\pm0,05$ $-0,28\pm0,03$ [.020] $1,12\pm0,05$ $[.115\pm.002]$ $[.011\pm.001]$ -TERMINAL 2 MAXIMUM 044 + .0021(POSITIVE) SOLDER BUILDUP -TERMINAL I 🕳 (NEGATIVE) Revision C.O. # Implementation Date RELEASE LEVEL REVISION SCALE 2:1 NOMINAL WEIGHT Active DIMENSIONS IN MILLIMETERS [INCHES] 0.09 GRAMS C10114785P 11-11-13 SCALE: DR. BY 5: I **KNOWLES ELECTRONICS** 00 11-11-13 DO NOT SCALE DRAWING CK. BY DATE ITASCA, ILLINOIS U.S.A. TITLE: RECEIVER WBFK-31142-000 GJP 11-13-13

KEIIIASIZE.FRM

SHT I.I

OUTLINE DRAWING

APP BY

Rev: B

DATE

11-13-13

MECHANICAL

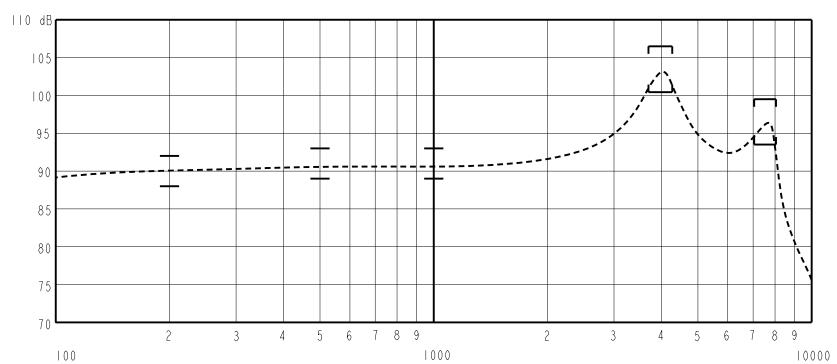
TEMPERATURE

PORT LOCATION: 12N SOLDER TYPE: SAC305

OPERATING: SENSITIVITY WILL NOT VARY MORE
THAN +1 / -3 dB FROM -17°C TO 63°C.
STORAGE: -40°C TO 63°C.

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





FREQUENCY IN HERTZ

ACOUSTICAL

SENSITIVITY*

SENSITIVITY IN dB RELATIVE TO 20μPα FOR CONDITIONS SHOWN BELOW

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 3. NOMINAL SENSITIVITY AT IKHZ IS dB RELATIVE TO 20 μPα. 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	91.0	+2.0
3700-4300	+9.5	+12.5	+15.5
7050-8050	+2.5	+5.5	+8.5

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 (%)
1330	. 0 9 4	0	5
2000	. 0 9 4	0	5
2000	. 265	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	.094 V rms, O mA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TITLE:

TABLE 3

FLECTRICAL

DC RESISTANCE	12.5 Ohms ± 10%*
IMPEDANCE @ 500 Hz	13. Ohms ± 15%*
IMPEDANCE @ IkHz	13.8 Ohms ± 15%*

TABLE 4

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION	
			Active	Ι Δ	
Α	C10114785P	- - 3	7101110	/\	

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

OF EQUIPMENT AND TEST METHOD VARIATION			- -
		CK. BY	DATE
RECEIVER	WBFK-31142-000	GJP	- 3-
MECETTEN	#B! 10 01 1 12 000	APP. BY	DATE
PERFORMANCE SPECIFICATION	SHT 2.1	GJP	- 3-