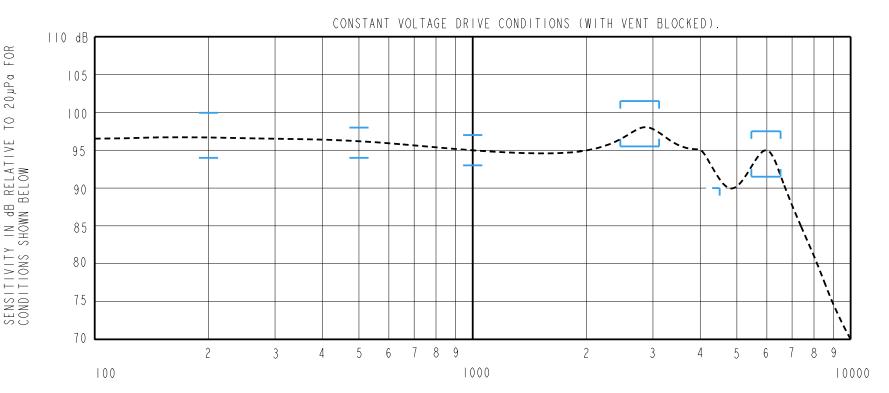


TWFK-30195-000

SHEET 2.1

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



FREQUENCY IN HERTZ

## ACOUSTICAL

SENSITIVITY\*

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	-1.0	+2.0	+5.0
500	-1,0	+ .0	+ 3 . 0
1000	-2.0	95.0	+2.0
2500-3100	+0.5	+3.5	+6.5
4500	- 5 . 0		
5550-6550	-3.5	-0.5	+2.5

TABLE I

MECHANICAL

PORT LOCATION: 12S SOLDER TYPE: SAC305

TEMPERATURE:

OPERATING: SENSITIVITY AT 500Hz WILL NOT VARY

BY MORE THAN  $\pm 3$  dB FROM

0°C TO 63°C. STORAGE: -40°C TO 63°C.

TOTAL HARMONIC DISTORTION\*

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
930	0.246	0	5
1400	0.246	0	5
500	0.696	0	8

TABLE 2

## TEST CONDITIONS

0.22 µF CAPACITOR CONNECTED TO THE INPUT OF THE WBFK RECEIVER

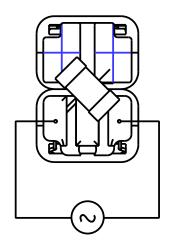
NOMINAL SOURCE VOLTAGE	0.246 V rms, 0 V DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

## ELECTRICAL

LLECTRICAL				
11)( PE / 1 / 1 / N)( E	200 Ohms ± 10%* 200 Ohms FK / 50 Ohms WBFK			
IMPEDANCE @ 500 Hz	243 Ohms ± 15%*			
IMPEDANCE @ IkHz	353 Ohms ±15%*			

TABLE 4



RELEASE LEVEL

SHT 2.1

8 - 17 - 07

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

C B	C10108259P C10106978			Active		C
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR FILMINATION OF FOULPMENT AND TEST METHOD VARIATION				DR. BY	DATE 8 - 1 6 - 0 7	
				CK. BY	DATE	
TITLE:	RE	CEIVER		TWFK-30195-000	GJP APP. BY	8 - 1 7 - 0 7 DATE

Revision C.O. # Implementation Date

PERFORMANCE SPECIFICATION

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