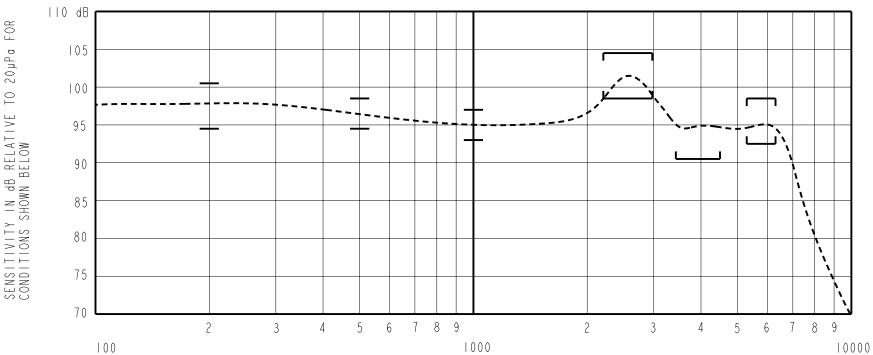


TWFK-23991-000 SHEET 2.1

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

CONSTANT VOLTAGE DRIVE CONDITIONS (WITH VENT BLOCKED).



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	-0.5	+2.5	+5.5
500	-0.5	+1.5	+3.5
1000	-2.0	95.0	+2.0
2300-2900	+3.5	+6.5	+9.5
3500-4500	- 4 . 5		
5350-6350	-2.5	+0.5	+3.5

TABLE I

MECHANICAL

PORT LOCATION: 12S SOLDER TYPE: SAC305

TEMPERATURE:

OPERATING: SENSITIVITY AT 500Hz WILL NOT VARY

BY MORE THAN ±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 (%)
870	0.141	0	5
1300	0.141	0	5
500	0.399	0	10

TABLE 2

#### TEST CONDITIONS

O 22 HE CAPACITOR CONNECTED TO THE INPUT OF THE WBEK RECEIVER

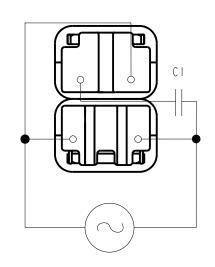
U.ZZDI CAFACITOR CONNECTED TO	THE INFOL OF THE WORK RECEIVER
NOMINAL SOURCE VOLTAGE	0.141 V rms, 0 V DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM <sup>3</sup> SIMULATED ANSI S3 7 TYPE HA-3 (IEC 126)

TABLE 3

### ELECTRICAL

DC RESISTANCE	100 Ohms ± 10%*   100 Ohms FK / 50 Ohms WBFK		
IMPEDANCE @ 500 Hz	122 Ohms ± 15%*		
IMPEDANCE @ IkHz	184 Ohms ± 15%*		

TABLE 4



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

	Revision	Revision C.O. # Implementation Date		RELEASE LEVEL	RELEASE LEVEL	
				Released		Δ
	А	C10104114P	4 - 7 - 06		/ \	
	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		DR. BY	DATE		
				CRG	4 - 7 - 06	

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

CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			4 - 7 - 0 6 DATE
TITLE: RECEIVER	TWFK-23991-000	G J P	4 - 18 - 0 (
PERFORMANCE SPECIFICATI	ION SHT 2.1	GJP	4-18-06