

### ACOUSTICAL

#### SENSITIVITY\*

DEVICE WILL PRODUCE THE SPL LISTED BELOW WUTH THE TEST CONDITIONS DESCRIBED IN TABLES 3. NOMINAL SENSITIVITY AT I kHz IS dB RELATIVE TO 20uPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT I kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
100	+ 2	+ 5	+ 8
250	+ 2	+ 5	+ 8
500	Ι.5	+ 3	+4.5
1000	-1.5	101.0	+ .5
2300-3100 PEAK	+ 2	+ 5	+ 8
3680-4720 VALLEY	- 9	- 6	- 3
4500-5500 PEAK	- 7		

TABLE I.

TOTAL HARMONIC DISTORTION\* DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	DRIVE (V RMS)	DC BIAS (MA)	LIMIT (%)	
900	0.071 V	0	5	
1350	0.071 V	0	5	
500	0.2 V	0	10	
TABLE 2	0.2 1	V	10	

TEST CONDITIONS

## ELECTRICAL

DC RESISTANCE	7.4Ω ±10%	*
IMPEDANCE @ 500 Hz	2Ω ± 5%	*
IMPEDANCE @ I kHz	20.8\(\Omega\) ±20%	*
INDUCTANCE @ 500Hz	3mH ±15%	
CAPACITANCE @ IO MHz	6pF ±20%	

TABLE 4.

ISOLATION: THE CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT\*

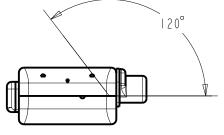
#### MAGNETIC RADIATION

WORST CASE: FIELD WILL BE LESS THAN LEVEL STATED BELOW AT AMPLIFIER CLIPPING (.920 V).

134 dB re IµA/m DISTANCE OF 6.3 mm FROM CENTER OF RECEIVER ANGLE OF 120 DEGREES FROM TUBE

# MECHANICAL

PORT LOCATION: 12C



SOLDER TYPE: 96.5% Sn, 3% Ag, 0.5% Cu (LEAD FREE)

#### TEMPERATURE

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

NOMINAL SOURCE VOLTAGE 0.071 Vrms, 0 Vdc BIAS	RELIABILITY
SOURCE IMPEDANCE < I $\Omega$	UNITS WILL SURVIVE ANY OF THE FOLLOWING ACCELERATED
TUBING I0 mm (.394) LONG, I mm (.039) ID.	LIFE TESTS, REPORT AVAILABLE FROM QA DEPARTMENT
COUPLER CAVITY 2 CC SIMULATED ANSI S3.7 TYPE HA-3, (IEC 126)	HALT TEST (8 WEEKS, 63°C, 95% RH, 0.83V, 500 Hz SIGNAL)
TABLE 3.	HIGH TEMPERATURE STORAGE (63°C, 72 HOURS) LOW TEMPERATURE STORAGE (-40°C, 72 HOURS)
POLARITY * POSITIVE SIGNAL APPLIED TO TERMINAL 2 WILL PRODUCE A DECREASE IN SOUND PRESSURE AT THE SOUND OUTLET.	DAMP HEAT CYCLING (ALTERNATE 25°C TO 63°C, 93% RH, 20 CYCLES) THERMAL SHOCK (-40°C TO 63°C, 5 CYCLES) SOLDER/DESOLDER CYCLING (5 CYCLES) SOLDER PAD STRENGTH (STRENGTH > 1.8 LBS.) STRESS TEST (1.32 Vrms AT 2700 Hz SIGNAL, I HOUR) MECHANICAL SHOCK LEAK TEST AFTER AGING (NO LEAK AFTER ANY OF THE ABOVE TESTS)

	Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
	B	CI0I03946 CI0I03365	2 - 20 - 06     - 29 - 05	Released		В
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			dr. by AB ck. by	DATE     - 2 9 - 0 5 DATE	
	TITLE:	RE	CEIVER	HC-23762-000	GJP app. by	2 - 5 - 0 5 DATE
		PERFORMAN	ICE SPECIFICATION	SHT 2.1	GJP	2-5-05