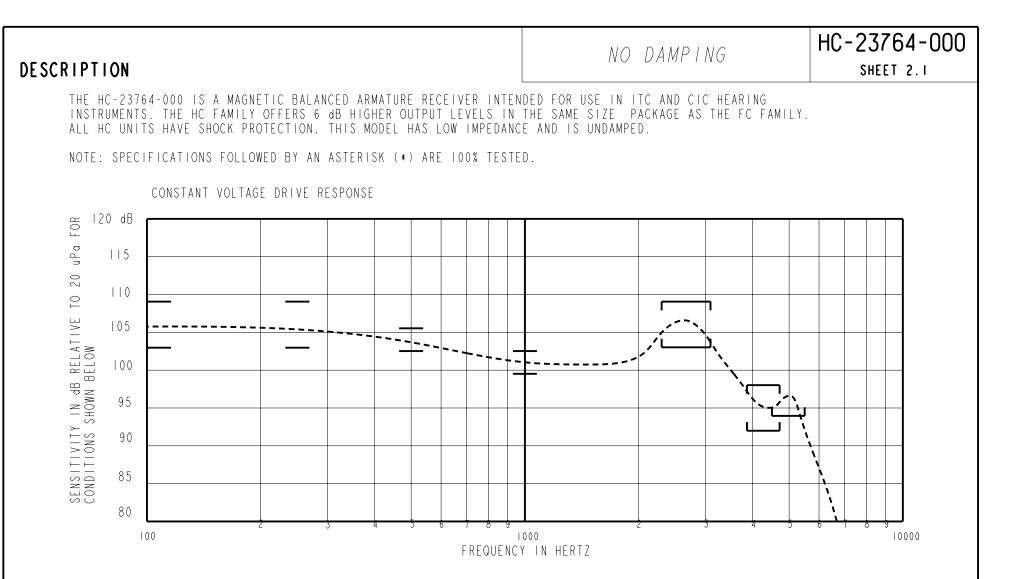


Rev: B



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	+1.5
2300-3100 PEAK	+ 2	+ 5	+ 8
3890-4750 VALLEY	- 9	- 6	- 3
4500-5500 PEAK	- 7		

TABLE I.

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

0	5	
0	5	
0	10	
	0	

TEST CONDITIONS

ELECTRICAL

DC RESISTANCE	5.5Ω ± 0%	*
IMPEDANCE @ 500 Hz	24Ω ±15%	*
IMPEDANCE @ I kHz	43Ω ±20%	*
INDUCTANCE @ 500Hz	6mH ±15%	
CAPACITANCE @ IO MHz	6pF ±20%	

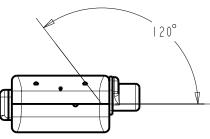
TABLE 4.

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	0.100 Vrms, 0 Vdc BIAS	RELIABILI
SOURCE IMPEDANCE	$< \mid \Omega$	UNITS
TUBING	10 mm (.394) LONG, 1 mm (.039) ID.	LIFE T
COUPLER CAVITY	2 CC SIMULATED ANSI S3.7 TYPE HA-3, (IEC 126)	

TABLE 3.

POLARITY *

POSITIVE SIGNAL APPLIED TO TERMINAL 2 WILL PRODUCE A DECREASE IN SOUND PRESSURE AT THE SOUND OUTLET.

RELIABILITY UNITS WILL SURVIVE ANY OF THE FOLLOWING ACCELERATED LIFE TESTS, REPORT AVAILABLE FROM QA DEPARTMENT HALT TEST (8 WEEKS, 63°C, 95% RH, 0.83V, 500 Hz SIGNAL) HIGH TEMPERATURE STORAGE (63°C, 72 HOURS) LOW TEMPERATURE STORAGE (-40°C, 72 HOURS) 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 (1.87 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 - 29 - 05 DATE	
	TITLE:	RE	CEIVER	HC-23764-000	GJP app. by	12-5-05 date
		PERFORMAN	ICE SPECIFICATION	SHT 2.1	GJP	12-5-05

Mouser Electronics

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Knowles: HC-23764-000