

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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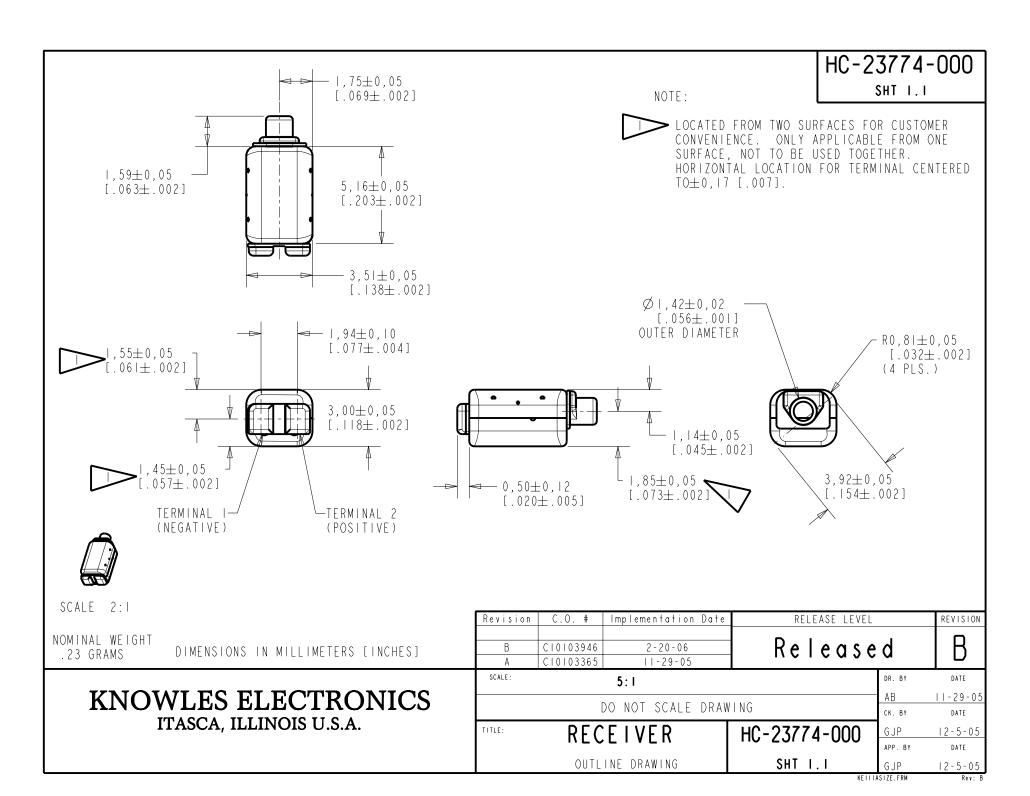
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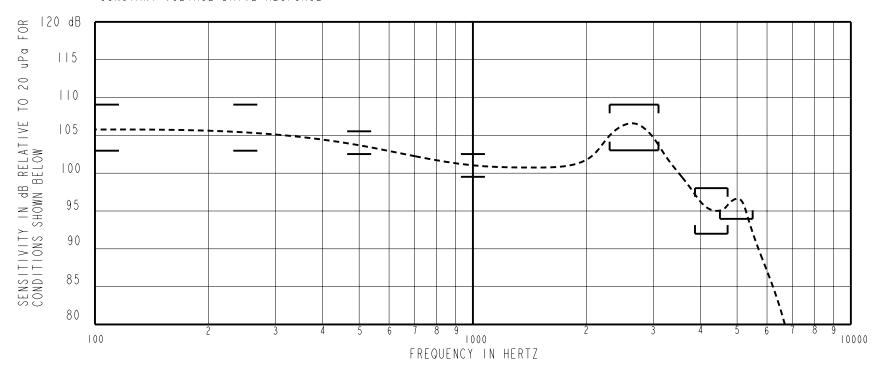
SHEET 2.1

DESCRIPTION

THE HC-23774-000 IS A MAGNETIC BALANCED ARMATURE RECEIVER INTENDED FOR USE IN ITC AND CIC HEARING INSTRUMENTS. THE HC FAMILY OFFERS 6 dB HIGHER OUTPUT LEVELS IN THE SAME SIZE PACKAGE AS THE FC FAMILY. ALL HC UNITS HAVE SHOCK PROTECTION. THIS MODEL HAS HIGH IMPEDANCE AND IS UNDAMPED.

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

CONSTANT VOLTAGE DRIVE RESPONSE



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 1 kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
100	+ 2	+ 5	+8
250	+ 2	+ 5	+8
500	1.5	+ 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.

FREQUENCY (Hz)	DRIVE (V RMS)	DC BIAS (MA)	LIMIT (%)
900	0.671 V	0	5
1350	0.671 V	0	5
500	1.89 V	0	10

TABLE 2.

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.671 Vrms, O Vdc BIAS
SOURCE IMPEDANCE	< Ι Ω
TUBING	10 mm (.394) LONG, 1 mm (.039) ID.
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.

ELECTRICAL

DC RESISTANCE	685 <u>Ω</u> ±10%	*
IMPEDANCE @ 500 Hz	1132Ω ±15%	*
IMPEDANCE @ I kHz	2072Ω ±20%	*
INDUCTANCE @ 500Hz	287 ±15%	
CAPACITANCE @ 10 MHz	6pF ±20%	

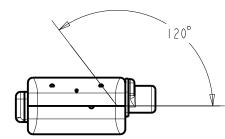
TABLE 4.

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 lμA/m

DISTANCE OF 6.3 mm FROM CENTER OF RECEIVER ANGLE OF 120 DEGREES FROM TUBE



11-29-05

DATE

12-5-05

DATE

12-5-05

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

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 (12.55 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
В	C10103946 C10103365	2-20-06 11-29-05	Released		В
Α		7,7 2,4 4,0			
			INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

TITLE:	DECEIVED HC-23774-000 GJP
	RRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR OF EQUIPMENT AND TEST METHOD VARIATION AB CK. BY
	MITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION DR. BY

HC-23//4-000 KFCFIAFK APP. BY PERFORMANCE SPECIFICATION SHT 2.1 GJP