

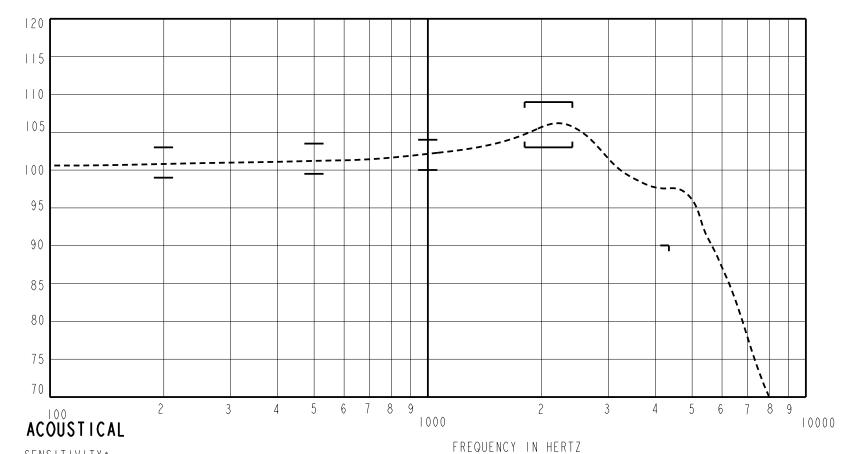
DESCRIPTION

FOR

SENSITIVITY IN dB RELATIVE TO CONDITIONS SHOWN BELOW

THE FED-30048-104 IS A FERROFLUID DAMPED, MAGNETIC BALANCED ARMATURE RECEIVER, INTENDED FOR USE IN HEADSETS. THIS MODEL IS SHOCK PROTECTED, HAS LOW IMPEDANCE, INCREASED DCR/IMPEDANCE RATIO, AND A REAR VENT.

CONSTANT VOLTAGE DRIVE CONDITIONS (NOTE: REAR VENT, CENTER TERMINAL PAD, BLOCKED FOR TEST)



SENSITIVITY*

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER THE TEST CONDITIONS DESCRIBED IN TABLE 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
200	- 3 . 0	-1.0	+1.0
500	-2.5	-0.5	+1.5
1000	-2.0	102.0	+2.0
1850-2650	+ . 0	+4.0	+7.0
4400	-12 0		

TABLE I.

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	DRIVE (V RMS)	DC BIAS (MA)	LIMIT (%)	
500	0.363	0	10	
780	0.13	0	5	
1175	0.13	0	5	

TABLE 2.

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.13 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	< Ι Ω
TUBING	10 mm (.394) LONG, I mm (.039) ID.
COUPLER CAVITY	2 CM ³ SIMULATED ANSI S3.7 TYPE HA-3. (IEC 126)

TABLE 3.

ELECTRICAL

DC RESISTANCE	23 <u>\(\Omega\)</u> ±10%
IMPEDANCE @ 500 Hz	26Ω ±15%
IMPEDANCE @ I kHz	29\(\Omega\) ±15%

TABLE 4.

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITIVITY WILL NOT VARY BY MORE THAN ± 3 dB WITHIN RANGE) SENSITIVITY AT 0°C IS 2dB LOWER THAN THE SENSITIVITY AT ROOM TEMPERATURE.

DELTA PEAK IS IdB HIGHER AT BODY TEMPERATURE (37°C)

STORAGE RANGE FROM -40°C TO 63°C.

	Revision	C.O. #	implementation Dai	re	KELEASE LEVEL		KE A L 2 LOIM	
	С	C10107990	- 3 - 08				>	
	В	C10106796	1 - 4 - 08		l Active		(
	А	C10104709	8-25-06				V	
					INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE	
C	CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			LSY	8-25-06			
5						CK. BY	DATE	
	TITLE:	RF	CFIVER		FED-30048-104	GJP	9 - 8 - 06	
		11 -	CLIVEN		1 60 00040 104	APP. BY	DATE	

SHT 2.1

GJP

9-8-06

PERFORMANCE SPECIFICATION

PORT LOCATION: 12N

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.