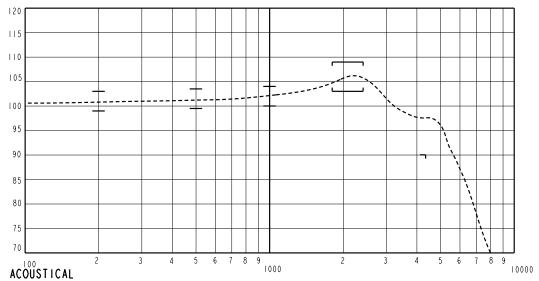


DESCRIPTION

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)





FREQUENCY IN HERTZ

NSTITUTITY

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 I 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	+1.0	+4.0	+7.0	
4400	-12.0			

PORT LOCATION: 12N

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, mm (.039) D.
COUPLER CAVITY	2 CM ³ SIMULATED ANSI S3.7 TYPE HA-3. (IEC 126)

TABLE 3.

ELECTRICAL

DC RESISTANCE	23Ω ±10%
IMPEDANCE @ 500 Hz	26Ω ±15%
IMPEDANCE @ I kHz	29Ω ±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 Date	RELEASE LEVEL		REVISION
	C	C10107990	11-13-08			^
	В	C10106796	1 - 4 - 08	Active		(
	Α	C10104709	8-25-06)
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION				DR. BY	DATE
	CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				LSY	8-25-06
					CK. BY	DATE
	TITLE:	RF	CEIVER	FED-30048-104	GJP	9-8-06
			CLIVEN	1 20 00040 104	APP. BY	DATE
		PERFORMAN	ICE SPECIFICATION	SHT 2.1	GJP	9-8-06

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.