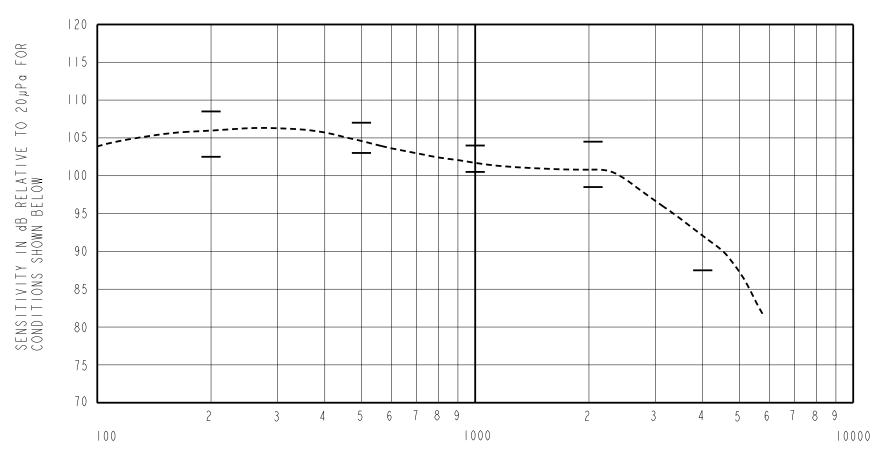


PORT LOCATION: 12C

THE FED-30027-124 IS A FERROFLUID AND HEAVY TYPE II DAMPED ED-27288 RECEIVER WITH A PEAK OF -IdB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS. THIS MODEL HAS INCREASED DCR/IMPEDANCE RATIO AND IS NOMAINALLY 4 dB DAMPED BY FERROFLUID AND 4dB BY HEAVY TYPE II DAMPING.

CONSTANT VOLTAGE DRIVE CONDITIONS



FREQUENCY IN HERTZ

## **ACOUSTICAL**

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT IKHZ IS dB RELATIVE TO 20μPα. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT IKHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	0.0	+3.0	+6.0
500	+0.5	+2.5	+4.5
1000	-2.0	102.5	+2.0
2050	- 4 . 0	-1.0	+2.0
4000	-15.0		

TABLE I

TOTAL HARMONIC DISTORTION

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
500	0.470	0	10
830	0.167	0	5
1250	0.167	0	5

TABLE 2

## TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.167 V rms, OmA DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM <sup>3</sup> , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)

TABLE 3

## **ELECTRICAL**

DC RESISTANCE	48 OHMS ± 10%
IMPEDANCE @ 500 Hz	74 OHMS ± 15%
IMPEDANCE @ I kHz	

TABLE 4

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

TEMPERATURE: OPERATING RANGE FROM 0°C TO 63°C (SENSITVITY 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		
	D	C10109720	5-15-09	Active		D
KNOWLES ELECTRONICS	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 SDZ CK. BY	DATE 6 -   4 - 0 6  DATE	
ITASCA, ILLINOIS U.S.A.	TITLE:	RE	CEIVER	FED-30027-124	GJP APP. BY	6 - 23 - 06 DATE
		PERFORMAN	CE SPECIFICATION	SHT 2.1	GJP	6 - 23 - 06

## **Mouser Electronics**

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