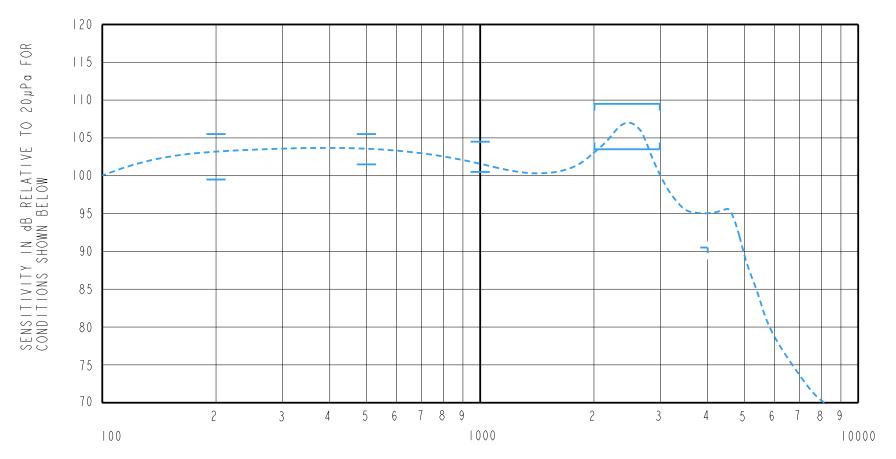


SHEET 2.1

THE FED-27304-104 IS A FERROFLUID AND TYPE III DAMPED ED-27304 RECEIVER WITH A PEAK OF 4dB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS. THIS MODEL HAS INCREASED DCR/IMPEDANCE RATIO.

## 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	-3.0	0.0	+3.0
500	-1.0	+   . 0	+3.0
1000	-2.0	102.5	+2.0
2000 - 3000	+   . 0	+4.0	+7.0
4000	-12.0		

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	1.02	0	10
830	0.362	0	5
1250	0.362	0	5

TABLE 2

## TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.362 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	201 OHMS ± 10%
IMPEDANCE @ 500 Hz	265 OHMS ± 15%
IMPEDANCE @ I kHz	370 OHMS ± 15%

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
С	C10107990	11-13-08			$\sim$
В	C10105824	5 - 2 - 0 7	l Active		(
A	C10103609	2 - 2 - 06	110110		
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION			DR. BY	DATE	
		OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR NT AND TEST METHOD VARIATION		CRG	2 - 2 - 06
				CK. BY	DATE
TITLE:	RF	CEIVER	FED-27304-104	GJP	2-8-06
	.,_		125 21 30 1 10 1	APP. BY	DATE
	PERFORMAN	NCE SPECIFICATION	SHT 2.1	GJP	2-8-06

PORT LOCATION: 12C

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ITASCA, ILLINOIS U.S.A.