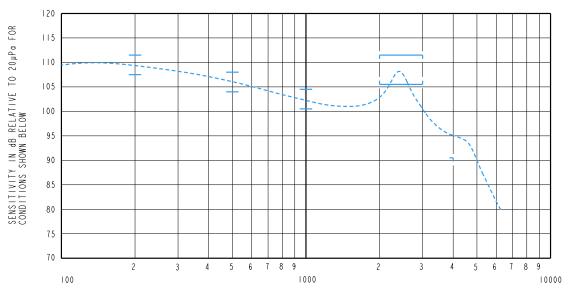


FED-23814-106

SHEET 2.1

THE FED-23814-106 IS A FERROFLUID DAMPED ED-23814 RECEIVER WITH PEAK OF 4dB RELATIVE TO THE SENSITIVITY AT IKHZ UNDER CONSTANT VOLTAGE DRIVE CONDITIONS.

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 20µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT IKHZ.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	+5.0	+7.0	+9.0
500	+1.5	+3.5	+5.5
1000	-2.0	102.5	+2.0
2000 - 3000	+3.0	+6.0	+9.0
4000	-12.0		

PORT LOCATION: 12S

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	0.406	0	10
830	0.143	0	5
1250	0.143	0	5

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.143 V rms, OmA DC BIAS		
SOURCE IMPEDANCE	<1 Ohm		
TUBING			
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 126)		
TABLE 3			

ELECTRICAL

DC RESISTANO	CE	23	OHMS ± 10%
IMPEDANCE @	500 Hz	50	OHMS ± 15%
IMPEDANCE @	l k H z	85	OHMS ± 15%

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
	B A	C10107990 C10105063	11-17-08 12-04-06	Active		В
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR IT IMINATION OF FOULIPMENT AND TEST METHOD VARIATION			DR. BY	DATE 12-04-06	
	ELITATION OF EGG FIELD FINE TEST PERIOD FINITION			CK. BY	DATE	
	TITLE:	RF	CEIVER	FED-23814-106	GJP	12-08-06
				1 25 200 1 100	APP. BY	DATE
		PERFORMAN	NCE SPECIFICATION	SHT 2.1	GJP	12-08-06

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.