

MECHANICAL

TEMPERATURE:

PORT LOCATION: 12S SOLDER TYPE: SAC305

OPERATING: SENSITIVITY AT 500Hz WILL NOT VARY

BY MORE THAN ±3 dB FROM 0°C TO 63°C.

STORAGE: -40°C TO 63°C.

LISTENING TEST CONDUCTED BETWEEN

INPUT VOLTAGE DRIVE SIGNAL, IOIVrms.

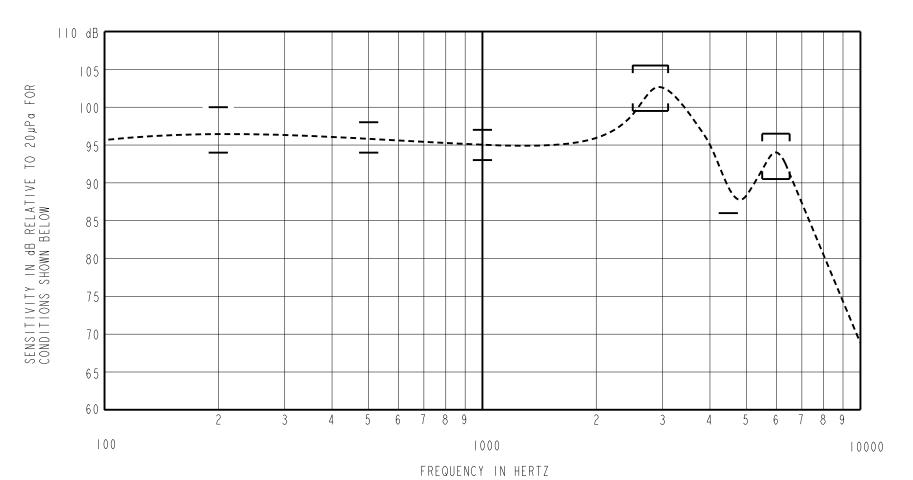
50HZ AND 5KHZ TO DETECT BUZZ

TWFK-31749-000 SHEET 2.1

UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVERS INTENDED FOR USE AS THE HIGH AND LOW FREQUENCY DRIVERS IN A HI FI SYSTEM. THE TWFK IS A WIDEBAND FK AND FK RECEIVER PAIR WITH AN EXTENDED HIGH FREQUENCY RESPONSE, SHOCK PROTECTION AND WITH 0.68 µF TANTAL CAPACITOR. FK RECEIVER VENTED THROUGH UNUSED TERMINAL.

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100% TESTED.

CONSTANT VOLTAGE DRIVE CONDITIONS (WITH VENT BLOCKED).



ACOUSTICAL

SENSITIVITY*

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

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM		
200	-1.0	+2.0	+5.0		
500	-1.0	+ ,0	+ 3 . 0		
1000	-2.0	95.0	+2.0		
2500-3100	+ 4 . 5	+7.5	+10.5		
4500	-9.0				
5600-6600	-4.5	-1.5	+1.5		

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 (%)
930	. 085	0	5
1400	. 085	0	5
500	. 240	0	10
TABLE			

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	.085 V rms, O V DC BIAS
SOURCE IMPEDANCE	< I Ohm
TUBING	
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC-60318-5)

TABLE 3

ELECTRICAL

LLLOTITIONL			
	25 Ohms ± 10%* 25 Ohms FK / 12.5 Ohms WBFK		
IMPEDANCE @ 500 Hz	30.0 Ohms ± 15%*		
IMPEDANCE @ IkHz	42.0 Ohms ± 15%*		

TABLE 4

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

	Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
	Α	C10113623	4-19-12	Active		Α
	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	DATE	
IZMONII DO DI DOMBONICO				00	4-19-12	
KNOWLES ELECTRONICS				CK. BY	DATE	
ITASCA, ILLINOIS U.S.A.	TITLE:	RE	CEIVER	TWFK-31749-000	GJP	5-18-12
,		DEDEODMAN	ICE SPECIFICATION	SHT 2.1	APP. BY	DATE 5 - 1.8 - 1.2