

Tel:+86-755-82973806

Approved by:
Checked by:
Issued by:

SPECIFICATION

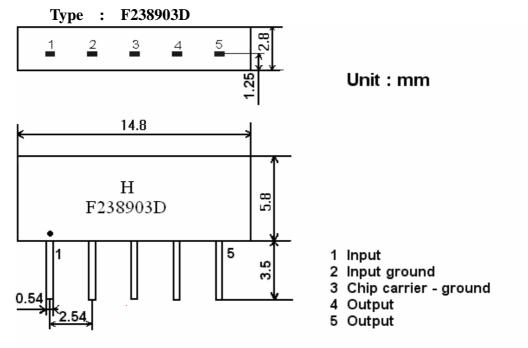
PRODUCT: SAW FILTER

MODEL: HF238903D (K2966D) SIP5D

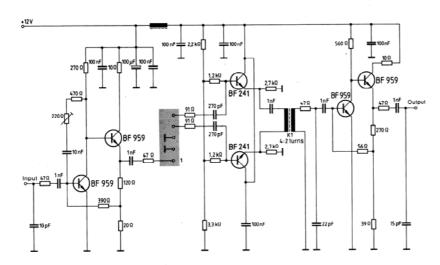
HOPE MICROELECTRONICS CO.,LIMITED

1.Construction

1.1 Dimension and materials



1.2. Circuit construction, measurement circuit



Test circuit for SIP-5 filter Input impedance of the symmetrical post-amplifier: 2 k $\!\Omega$ in parallel with 3 pF

2. Characteristics

Standard atmospheric conditions

Unless otherwise specified , the standard rang of atmospheric conditions for making measurements and tests is as follows;

Ambient temperature : 15° C to 35° C Relative humidity : 25% to 85%

Air pressure : 86kPa to 106kPa

Operating temperature rang

Operating temperature rang is the rang of ambient temperatures in which the filter can be operated continuously. $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage temperature rang

Storage temperature rang is the rang of ambient temperatures at which the filter can be stored without damage.

Conditions are as specified elsewhere in these specifications. $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Reference temperature $+25^{\circ}$ C

2.1 Maximum Rating

DC voltage	VDC	12	V	Between any terminals
AC voltage	Vpp	10	V	Between any terminals

2.2 Electrical Characteristics

Source impedance	$Z_s=50 \Omega$

Load impedance	$Z_L=2k \Omega //3pF$	$T_A=25^{\circ}C$

Educ Impedance ZL-ZK:		- // JPI		1A-23 C		
Items		Freq	Min	typ	max	
Insertion attenuation Reference level		37.40MHz	14.5	16.5	18.5	dB
			4.1	5.6	7.1	dB
		34.47MHz	1.6	3.1	4.6	dB
		32.40MHz	18.4	20.4	22.4	dB
Dolotivo otto	Relative attenuation		17.3	19.3	-	dB
Relative atte			42.0	57.0		dB
			31.0	42.0		dB
			42.0	55.0		dB
		41.40MHz	40.0	54.0		dB
Sidalaha	25.00~		35.0	47.0		dB
Sidelobe	40.40~45.00MHz		35.0	43.0		dB
Temperature coefficient			-72		Ppm/k	

2.3 Environmental Performance Characteristics

Item Test condition	Allowable change of absolute Level at center frequency(dB)
High temperature test 70°C 1000H	< 1.0
Low temperature test -40°C 1000H	< 1.0

Humidity test	< 1.0	
40°C 90-95% 1000H	< 1.0	
Thermal shock		
$-20^{\circ}\text{C} == 25^{\circ}\text{C} == 80^{\circ}\text{C}$ 20 cycle	< 1.0	
30M 10M 30M		
Solder temperature test	< 1.0	
Sold temp.260°C for 10 sec.	< 1.0	
Soldering	More then 95% of total	
Immerse the pins melt solder	area of the pins should	
at $260^{\circ}\text{C}+5/-0^{\circ}\text{C}$ for 5 sec.	be covered with solder	

2.4 Mechanical Test

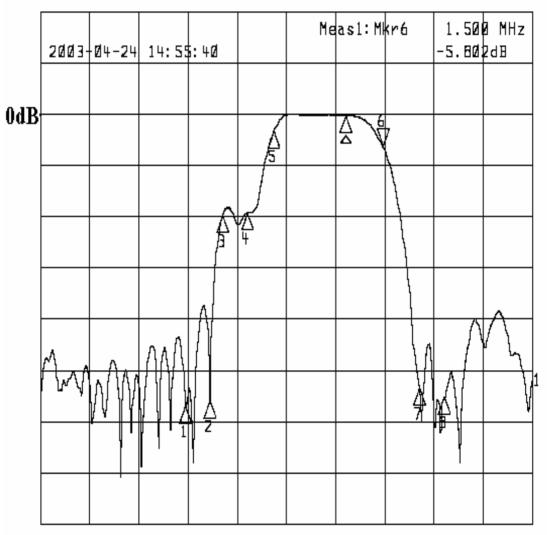
Item	Allowable change of absolute
Test condition	Level at center frequency(dB)
Vibration test	
600-3300rpm amplitude 1.5mm	<1.0
3 directions 2 H each	
Drop test	-1.0
On maple plate from 1 m high 3 times	<1.0
Lead pull test	-1.0
Pull with 1 kg force for 30 seconds	<1.0
Lead bend test	-1.0
90° bending with 500g weigh 2 times	<1.0

2.5 Voltage Discharge Test

Item	Allowable change of absolute
Test condition	Level at center frequency(dB)
Surge test	
Between any two electrode	
100V 1000pF 4Mohm	<1.0

2.6 Frequency response:

▶1:Transmission /M Log Mag 10.0 dB/



Start 25.000 MHz

Stop 45.000 MHz

1:M	kr∆(MHz)	dВ	2: Mkr (MHz) dB
1:	-6.5000	-56.952	
2:	-5.5000	-55.835	
3:	-5.0000	-19.564	
4:	-4.0000	-19.020	
5:	-2.9300	-3.212	
6>	1.5000	-5.802	
7:	3.0000	-53.414	
8:	4.0000	-55.006	