

Approved by:

Checked by:

Issued by:

SPECIFICATION

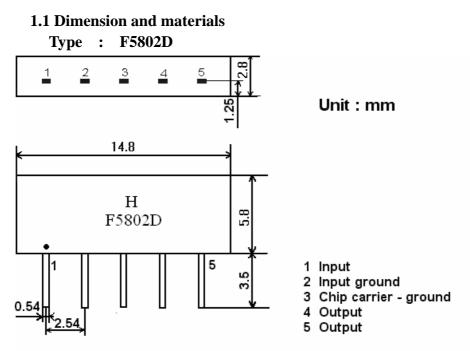
PRODUCT: SAW FILTER

MODEL: HF5802D (N1952D) SIP5D

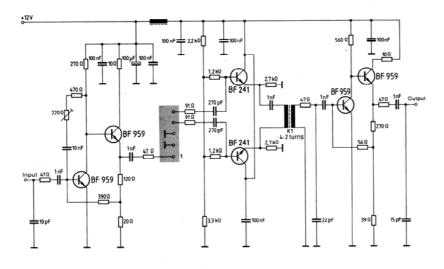
HOPE MICROELECTRONICS CO., LIMITED

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1.Construction



1.2. Circuit construction, measurement circuit



Test circuit for SIP-5 filter Input impedance of the symmetrical post-amplifier: 2 k Ω 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° C $\sim +60^{\circ}$ 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° C ~ $+70^{\circ}$ C

<u>Reference temperature</u> +25 ℃

2.1 Maximum Rating

DC voltage	VDC	12			Between any	terminals	
AC voltage	Vpp	10			Between any	ween any terminals	
2.2 Electrical Characteristics							
Source impedance $Z_s=50$			Ω (
Load impedance		$Z_L=2k \Omega //3pF$			$T_A=25$ °C		
		Freq	Min	typ	max		
Insertion at Reference		57.08MHz	9.9	11.9	13.9	dB	
Relative attenuation		58.83MHz	4.1	5.6	7.1	dB	
		55.25MHz	0.5	2.0	3.5	dB	
		54.33MHz	17.4	19.4	21.4	dB	
		52.83MHz	44.0	50.0	-	dB	
		60.33MHz	41.0	48.0	-	dB	
Sidelobe	45.08~:	52.83MHz	35.0	40.0	-	dB	
	60.33~65.08MHz		35.0	40.0	-	dB	
Reflected w	ave signal s	suppression					
1.2 us 6.0 us after main pulse (test pulse 250 ns , carrier frequency 57.08 MHz)		40.0	50.0	-	dB		
	gh signal st						
1.2 us 6.0 us after main pulse (test pulse 250 ns , carrier frequency 57.08 MHz)		45.0	52.0	-	dB		
Temperature coefficient			-72		ppm/k		

2.5 Environmental i criormanee Characteristics				
Item Test condition	Allowable change of absolute			
	Level at center frequency(dB)			
High temperature test	< 1.0			
70°C 1000H	< 1.0			
Low temperature test	< 1.0			
-40°C 1000H	< 1.0			
Humidity test	<10			
40°C 90-95% 1000H	< 1.0			
Thermal shock				
$-20^{\circ}C == 25^{\circ}C == 80^{\circ}C 20$ cycle	< 1.0			
30M 10M 30M				
Solder temperature test	- 1.0			
Sold temp.260 $^{\circ}$ C for 10 sec.	< 1.0			
Soldering	More then 95% of total			
Immerse the pins melt solder	area of the pins should			
at $260^{\circ}C+5/-0^{\circ}C$ for 5 sec.	be covered with solder			

2.3 Environmental Performance Characteristics

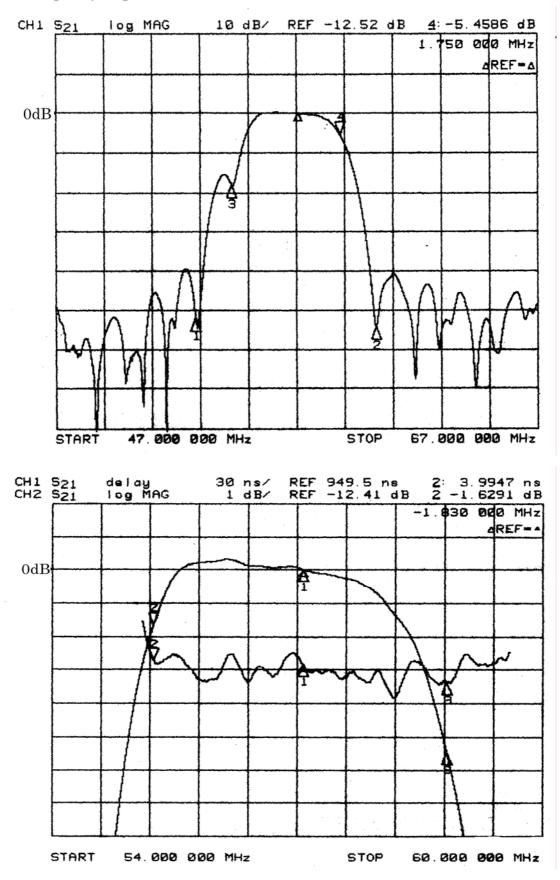
2.4 Mechanical Test

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	
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	
	<1.0

2.6 Frequency response:



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