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SPECIFICATION

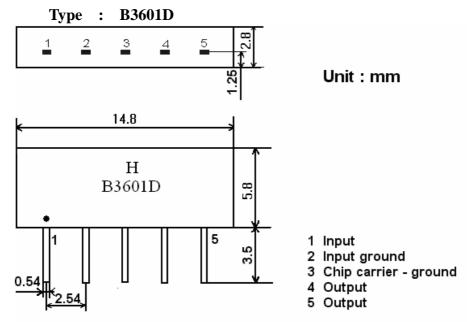
PRODUCT: SAW FILTER

MODEL: HB3601D (X6857D) SIP5D

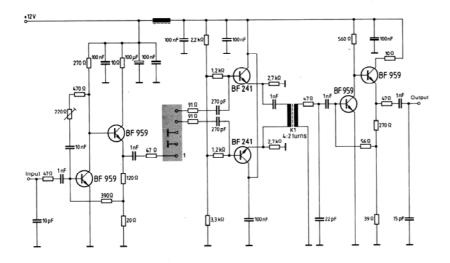
HOPE MICROELECTRONICS CO.,LIMITED

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 $: 15^{\circ}\mathbb{C}$ to $35^{\circ}\mathbb{C}$ 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°C

2.1 Maximum Rating

DC voltage	VDC	12	V	Between any terminals
AC voltage	Vpp	10	\mathbf{V}	Between any terminals

2.2 Electrical Characteristics

Source impedance $Zs=50 \Omega$

		-L -				1A 20 0
Item		Freq	min	typ	max	
Center frequency		Fo	-	36.00	-	MHz
Insertion attenuation Reference level		36.00MHz	19.0	21.0	23.0	dB
Pass bandwidth		$B_{1.5dB}$	-	7.8	-	MHz
		$\mathrm{B}_{\mathrm{3dB}}$	-	8.1	-	MHz
		$\mathrm{B}_{\mathrm{15dB}}$	-	8.9	-	MHz
		$\mathbf{B}_{30\mathrm{dB}}$	-	9.4	-	MHz
Relative attenuation		31.65MHz	7.0	10.0	-	dB
		40.35MHz	7.0	10.0	-	dB
		31.30MHz	22.0	29.0	-	dB
		40.70MHz	22.0	29.0	-	dB
Sidelobe	25.00~31.00MHz		32.0	40.0	_	dB
	41.00~45.00MHz		30.0	38.0	-	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	.10	
70°C 1000H	< 1.0	
Low temperature test	.10	
-40°C 1000H	< 1.0	
Humidity test	.10	
40°C 90-95% 1000H	< 1.0	
Thermal shock	< 1.0	

-20°C==25°C==80°C 20 cycle	
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°C+5/-0°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	21.0
On maple plate from 1 m high 3 times	<1.0
Lead pull test	21.0
Pull with 1 kg force for 30 seconds	<1.0
Lead bend test	21.0
90° bending with 500g weigh 2 times	<1.0

2.5 Voltage Discharge Test

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

2.6 Frequency response:

