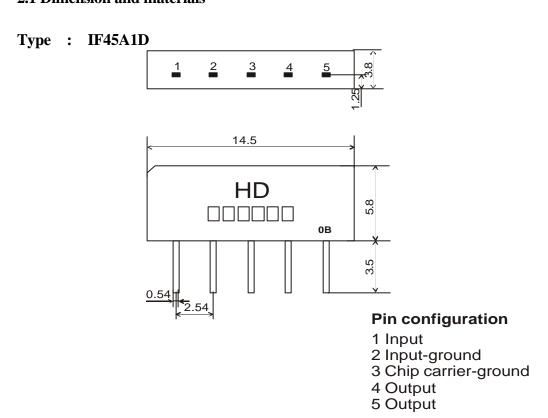
1.SCOPE

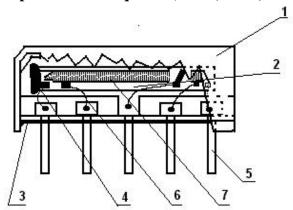
The SAW filter series have broad line up products meeting all broadcast standard including NTSC, PAL and SECAM systems. These filters are composed of two interdigital transducers on a single-crystal. piezoelectrical chip. They are used in electronic equipments such as TV and so on.

2. Construction

2.1 Dimension and materials

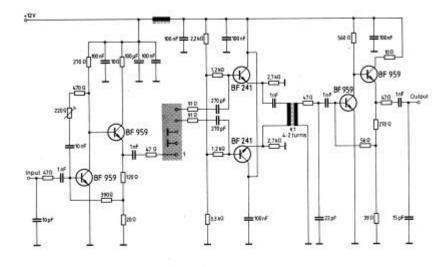


0:year(0,1,2,3,4,5,6,7,8,9) B:product in this quarter(A:1~3,B:4~6,C:7~9,D:10~12)



Components	Materials
1.Outer casing	PPS
2.Substrate	Lithium niobate
3.Base	Epoxy resin
4.Absorber	Epoxy resin
5.Lead	Cu alloy+Au plate
6.Bonding wire	AlSi alloy
7.Electrode	Al

2.2. 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

3. Characteristics

Standard atmospheric conditions

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

Ambient temperature : 15 to 35 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 ~ +60

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. $-40 \sim +70$

Reference temperature +25

3.1 Maximum Rating

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

3.2 Electrical Characteristics

Source impedance $Z_S=50$

		Freq	Min	typ	max	
Insertion at Reference		44.06MHz	10.7	12.7	14.7	dB
Relative attenuation		45.81MHz	4.5	6.0	7.5	dB
		42.23MHz	-0.5	1.0	2.5	dB
		41.98MHz	-	3.0	1	dB
		41.73MHZ	-	7.4	-	dB
		41.31MHz	17.1	19.1	21.1	dB
		39.81MHz	42.0	50		dB
		47.31MHz	40.0	48		dB
Sidelobe	35.06~	39.81MHz	35.0			dB
	47.31~55.06MHz		35.0			dB
Temperature coefficient			-72		ppm/k	

3.3 Environmental Performance Characteristics

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

3.4 Mechanical Test

J.7 Micchaineal 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	-10
90° bending with 500g weigh 2 times	<1.0

3.5 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

3.6 Frequency response

8

