B SHOULDER

规格书编号 SPEC NO:

产品规格书 SPECIFICATION

CUSTOMER 客户:_			
PRODUCT 产品:_	RODUCT 产品: SAW FILTER		
MODEL NO 型 号:_	HDIF389B8Dc SIP5Dc		
PREPARED 编制:_	CHECKED 审 核:		
APPROVED 批 准:	DATE 日期: 2008-10-16		

客户确认 CUSTOMER RECEIVED:				
审核 CHECKED	批准 APPROVED	日期 DATE		

无锡市好达电子有限公司 Shoulder Electronics Limited

SAW FILTER

HDIF389B8Dc SIP5Dc

更改历史记录 History Record

更改日期 Date	规格书编号 Spec. No.	产品型号 Part No.	客户产品型号 Customer No.	更改内容描述 Modify Content	备注 Remark

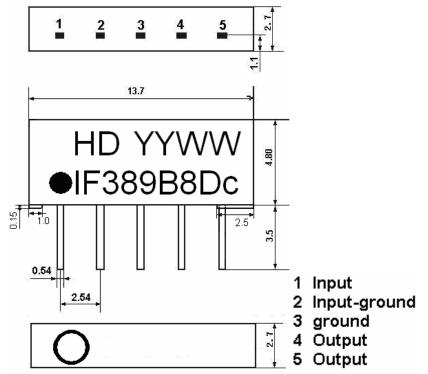


1.SCOPE

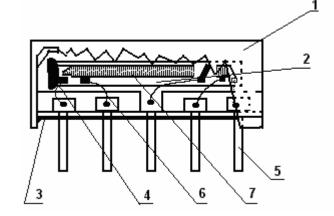
SHOULDER'S SAW filter series have broad line up products meeting all broadcast standard including NTSC,PAL and SECAM systems. These filters are composed of two interdigital transducers on a single-crystal. piezoelectrical chip. they are used in electronic equipments such as TV and so on.

2.Construction

2.1 Dimension and materials Manufacturer's name : SHOULDER ELECTRONICS Co. LTD(CHINA) Type : IF389B8Dc



YY:year WW:week

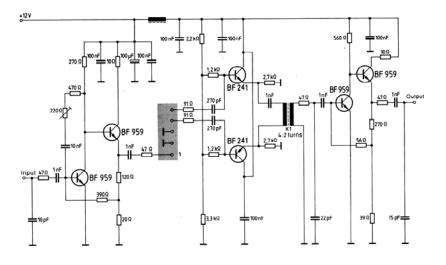


Components	Materials
1.Outer casing	PPS
2.Substrate	Lithium niobate
3.Base	Epoxy resin
4.Absorber	Epoxy resin
5.Lead	Cu alloy+Au plate
6.Bonding wire	AlSi alloy
7.Electrode	AI

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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

Items	Conditions	Specifications
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	There shall be no damage.
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	
Reference temperature	+25°C	

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3.1 Maximum Rating

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

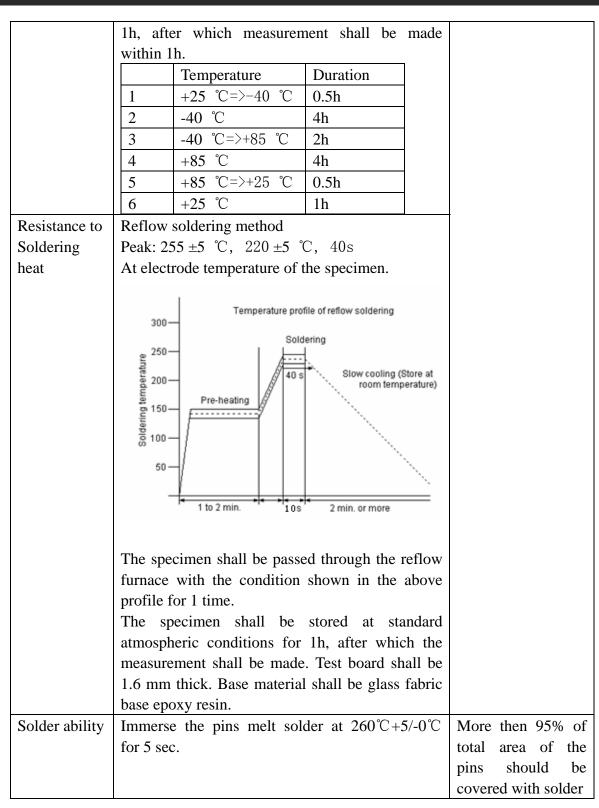
3.2 Electrical Characteristics

Source impedance		Zs	=50 Ω				
Load im	pedance	Z_L	$L=2k \Omega //3pF$		Т	$T_A=25$ °C	
	Item	5	Freq	Min	typ	max	
	Insertion atte	enuation	27 40MII-	12.0	15.0	17.0	dB
	Reference	level	37.40MHz	13.9	15.9	17.9	
			38.90MHz	4.1	5.6	7.1	dB
			34.47MHz	-0.4	1.1	2.6	dB
			32.40MHz	12.0	14.0	16.0	dB
	Relative atte	mustion	33.40MHz	13.0	14.2	-	dB
	Relative atte	enuation	30.90MHz	43.0	60.0		dB
			31.90MHz	35.0	52.0		dB
			40.40MHz	41.0	52.0		dB
			41.40MHz	40.0	54.0		dB
	Sidelobe		30.90MHz	35.0	42		dB
			45.00MHz	35.0	41		dB
	Temp	perature coefficient			-72		Ppm/k

3.3 Environmental Performance Characteristics

Item	Condition	Specifications
High	The specimen shall be store at a temperature of	
temperature	80 ± 2 °C for 96±4h. Then it shall be subjected to	
	standard atmospheric conditions for 1h, after	
	which measurement shall be made within 1h.	
Low	The specimen shall be store at a temperature of	Mechanical
temperature	-20 ± 3 °C for 96 \pm 4h. Then it shall be subjected to	characteristics and
	standard atmospheric conditions for 1h, after	specifications in
	which measurement shall be made within 1h.	electrical
Humidity	The specimen shall be store at a temperature of	characteristics shall
	40±2℃ with relative humidity of 90% to 96%	be satisfied. There
	for 96±4h. Then it shall be subjected to standard	shall be no
	atmospheric conditions for 1h, after which	excessive change in
	measurement shall be made within 1h.	appearance.
Thermal	The specimen shall be subjected to 8 continuous	
shock	cycles each as shown below. Then it shall be	
	subjected to standard atmospheric conditions for	

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3.4 Mechanical Test

Items	Conditions	Specifications
Vibration	600-3300rpm amplitude 1.5mm	
	3 directions 2 H each	
Drop	On maple plate from 1 m high 3 times	
		There shall be no
Lead pull	Pull with 1 kg force for 30 seconds	damage.
Lead bend	90° bending with 500g weigh 2 times	

3.5 Voltage Discharge Test

Item	Condition	Specifications
Surge	Between any two electrode	
		There shall be no damage

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3.6 Frequency response

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