规格书编号

SPEC NO :

产品规格书
SPECIFICATION

CUSTOMER 客 户：

PRODUCT 产 品：SAW FILTER

MODEL NO 型 号：HDF112T F11

PREPARED 编 制： CHECKED 审 核：

APPROVED 批 准： D A T E 日 期：2006-5-11

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

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

This specification shall cover the characteristics of SAW filter F112T.

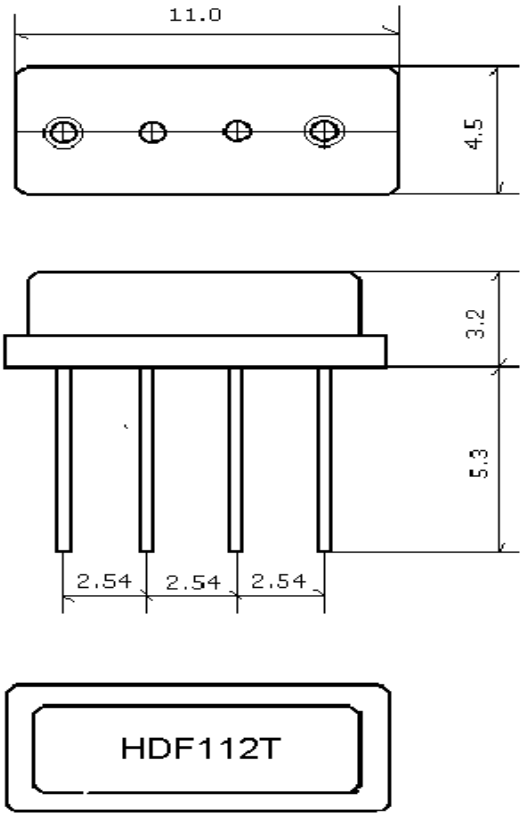
2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V
AC Voltage Vpp	10V50Hz/60Hz
Operation temperature	-40℃ to +85℃
Storage temperature	-45℃ to +85℃
RF Power Dissipation	0dBm

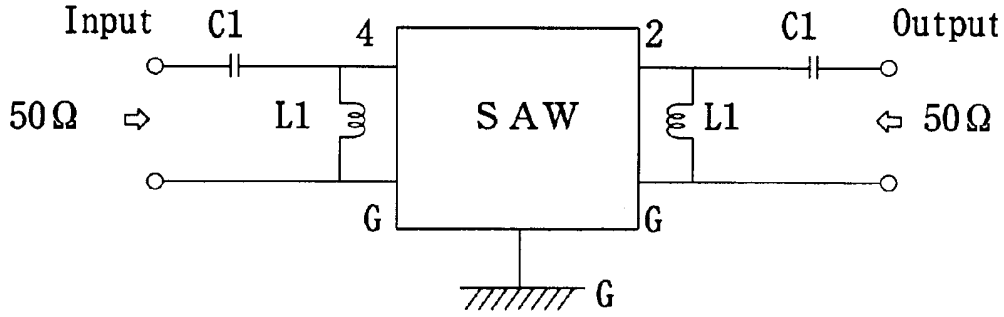
2.2 Electronic Characteristics

Item		Typ.value	Tolerance/Limit
Insertion Loss(reference level)	Ae=amin	13.0 dB	15.0 dB
Reference frequency	Fc(30dB-BW)	112.32 MHz	±150 kHz
Pass band shape(3 dB-BW)		±576KHz	Gaussian
Relative attenuation	Arel		
Fc±1.728MHz			≤-30dB
Fc±3.456MHz			≤-45dB
Fc±5.184MHz			≥-50dB
Group delay fc±576kHz	GD		±100 ns max
Temperature coefficient Tc 1st order		+1.7 ppm/K	
Tc 2st order		-0.06 ppm/K	
Drive /Load impedance		50Ω	

3. DIMENSION



4.TEST CIRCUIT



C1＝3pF
L1＝180～220nH

5. ENVIRONMENTAL CHARACTERISTICS

5-1 High temperature exposure

Subject the filter to +85℃ for 96 hours. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in 2.2.

5-2 Moisture

Keep the filter at 40℃ and 95% rh for 96 hours. then release the filter into the

room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in 2.2.

5-3 Low temperature exposure

Subject the filter to -40℃ for 96 hours. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in 2.2.

5-4 Temperature cycling

Subject the filter to a low temperature of -40℃ for 30 minutes. Following by a high temperature of +85℃ for 30 Minutes. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall meet the specifications in 2.2.

5-5 Resistance to solder heat

Dip the filter terminals no closer than 1.5mm into the solder bath at 270℃ ±10℃ for 10±1 sec. Then release the Filter into the room conditions for 1 to 2 hours. The Filter shall meet the specifications in 2.2.

5-6 Mechanical shock

Drop the filter randomly onto the concrete floor from the height of 30cm 3 times. the filter shall fulfill the specifications in 2.2.

5-7 Vibration

Subject the filter to the vibration for 1 hour each in x,y and z axes with the amplitude of 1.5 mm at 10 to 55 hz. The filter shall fulfill the specifications in 2.2.

6. REMARK

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration &destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

6.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.