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：HDF110NS F11A

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

无锡市好达电子股份有限公司

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 F110NS.

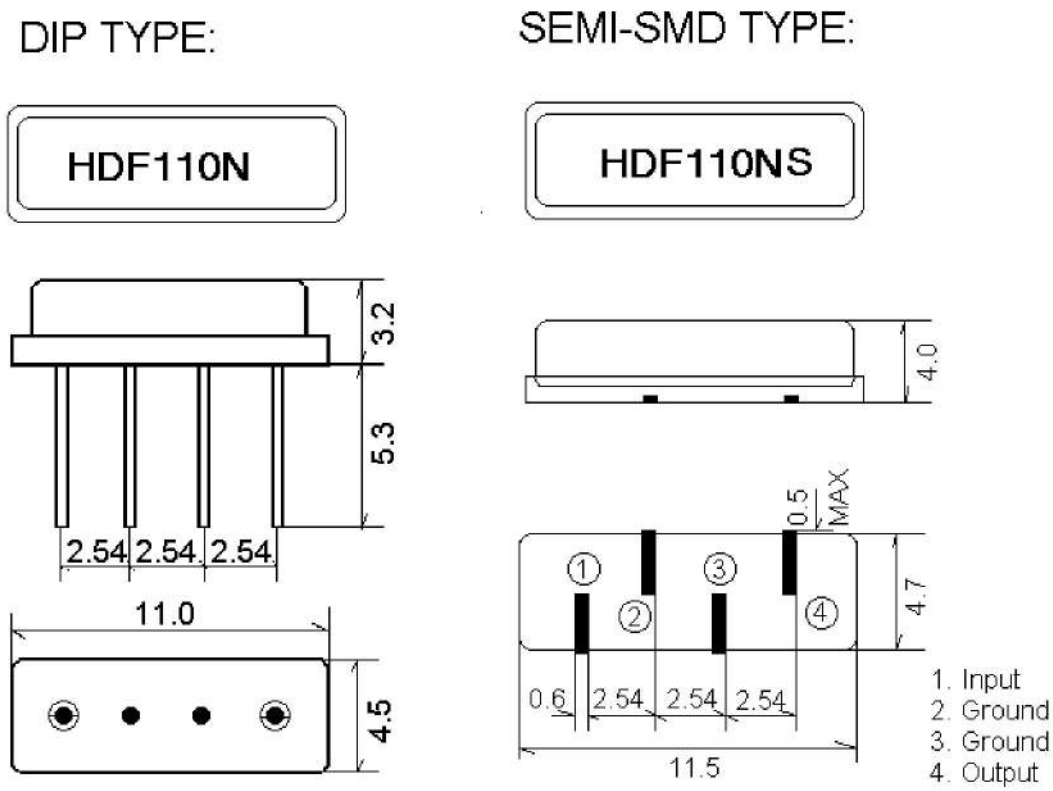
2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V
AC Voltage Vpp	10V50Hz/60Hz
Operation temperature	-20℃ to +55℃
Storage temperature	-45℃ to +85℃
RF Power Dissipation	0dBm

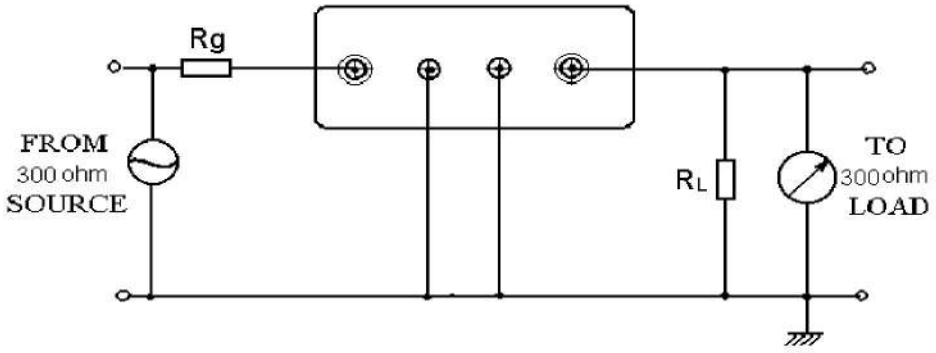
Electronic Characteristics

型号 Part Number	HDF110NS
中心频率(fo)(MHz) Nominal Center Frequency	110.592
3dB 带宽 Bandwidth(from fo)(KHz)	+/-576min
阻带衰耗 Stop Band Attenuation (from peak level)(dB) 1)fo-3×1. 728MHz 2)fo-2×1. 728MHz 3)fo+/-1.728MHz 4)fo+2×1.728MHz 5)fo+3×1.728MHz	 50min 45min 30min 40min 40min
插入损耗(dB) Insertion Loss(at minimum loss point)	4.5max
群延时波动(fo+/-576KHz)(μ sce.) Group Delay Deviation	0.7
输入/输出阻抗 Input/output Impedance	300Ω//1.2μH

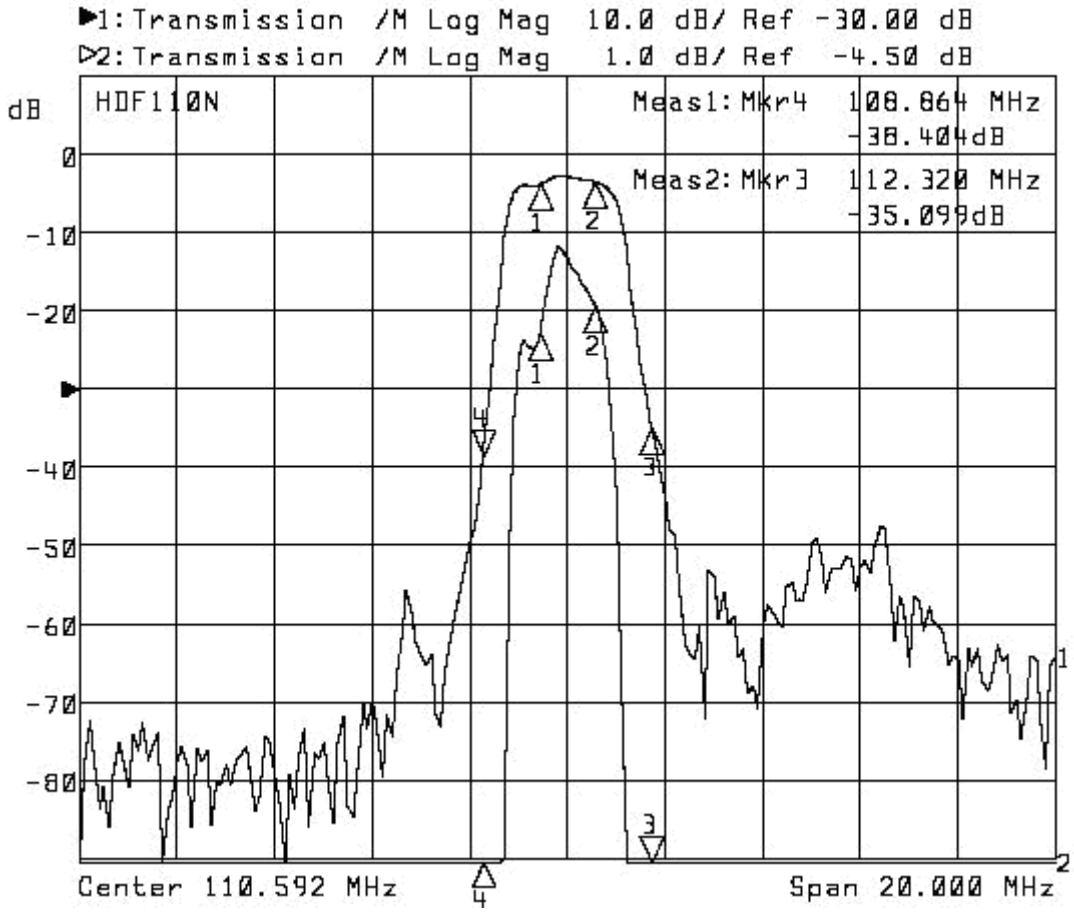
3. DIMENSION



4.TEST CIRCUIT



Typical frequency response



5. ENVIRONMENTAL CHARACTERISTICS

5-1 High temperature exposure

Subject the filter to +80℃ 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 table 1.

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 table 1.

5-3 Low temperature exposure

Subject the filter to -20℃ 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 table 1.

5-4 Temperature cycling

Subject the filter to a low temperature of -55℃ 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 table 1.

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 table 1.

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 table 1.

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 table 1.

5-8 Lead fatigue

5-8-1 Pulling test

Weight along with the direction of lead without an shock 3kg. The filter shall satisfy all the initial Characteristics.

5-8-2 Bending test

Lead shall be subject to withstand against 90℃ bending in the direction of thickness. This operation shall be done toward both direction. The filter shall show no evidence of damage and shall satisfy all the initial electrical characteristics.

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.