

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: **HDBF16019A61**

PREPARED 编 制: _____ CHECKED 审 核: **Houshihong**

APPROVED 批 准: **CHARLES** D A T E 日 期: **2007-01-25**

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

History Record

[illegible]

1. SCOPE

This specification shall cover the characteristics of SAW filter BF16019A61

2. ELECTRICAL SPECIFICATION

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

Electronic Characteristics

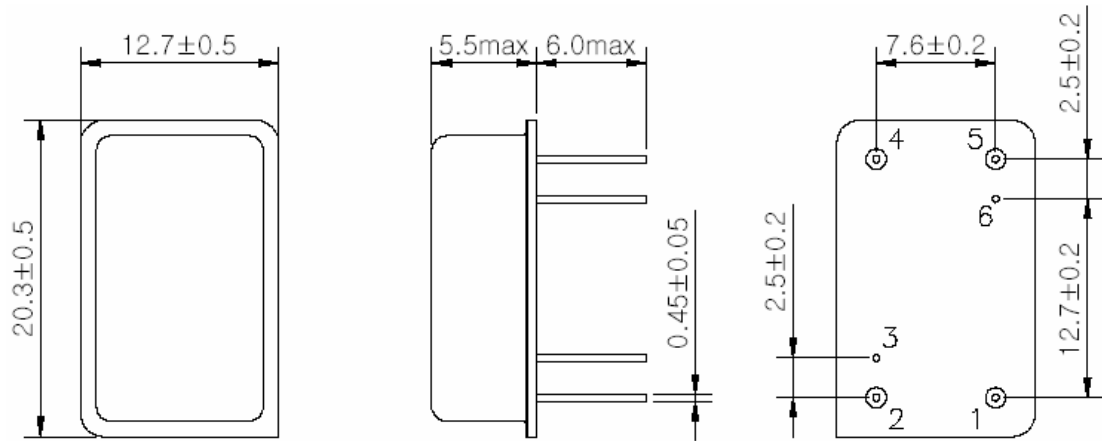
Fo = 160.075 MHz

Terminating source impedance: 50 ohm and matching network

Terminating load impedance: 50 ohm and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	160.0	160.075	160.15
Insertion Loss	dB	-	24.5	25.5
1dB Bandwidth	MHz	19.0	19.1	-
3dB Bandwidth	MHz	19.5	19.55	-
40dB Bandwidth	MHz	-	21.3	21.5
Amplitude Ripple (150.7 to 169.45 MHz)	dB	-	0.7	1.0
Group Delay Variation (150.7 to 169.45 MHz)	nsec	-	40	100
Absolute Delay	usec	-	1.79	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

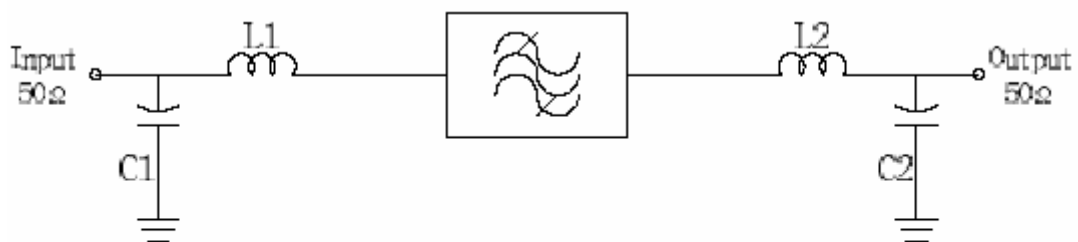
3. DIMENSION



Pin Configuration

1	Input
5	Output
2, 4	Ground
3, 6	Case ground

4. TEST CIRCUIT



$$L1 = 18 \text{ nH}, \quad L2 = 22 \text{ nH}$$

$$C1 = C2 = 27 \text{ pF}$$

5. ENVIRONMENTAL CHARACTERISTICS

5-1 High temperature exposure

Subject the device to +85℃ for 16 hours. Then release the filter into the room conditions for 24 hours prior to the measurement. It shall fulfill the specifications in table 1.

5-2 Low temperature exposure

Subject the device to -20℃ for 16 hours. Then release the device into the room conditions for 24 hours prior to the measurement. It shall fulfill the specifications in table 1.

5-3 Temperature cycling

Subject the device to a low temperature of -40℃ for 30 minutes. Following by a high temperature of +80℃ for 30 Minutes. Then release the device into the room conditions for 24 hours prior to the measurement. It shall meet the specifications in table 1.

5-4 Resistance to solder heat

Dip the device terminals no closer than 1.5mm into the solder bath at 260℃ $\pm 10^{\circ}\text{C}$ for 10 ± 1 sec. Then release the device into the room conditions for 4 hours. The device shall meet the specifications in table 1.

5-5 Solderability

Subject the device terminals into the solder bath at 245℃ $\pm 5^{\circ}\text{C}$ for 5s, More than 95% area of the terminals must be covered with new solder. It shall meet the specifications in table 1.

5-6 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1m 3 times. the device shall fulfill the specifications in table 1.

5-7 Vibration

Subject the device 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 device shall fulfill the specifications in table 1.

5-8 Lead fatigue

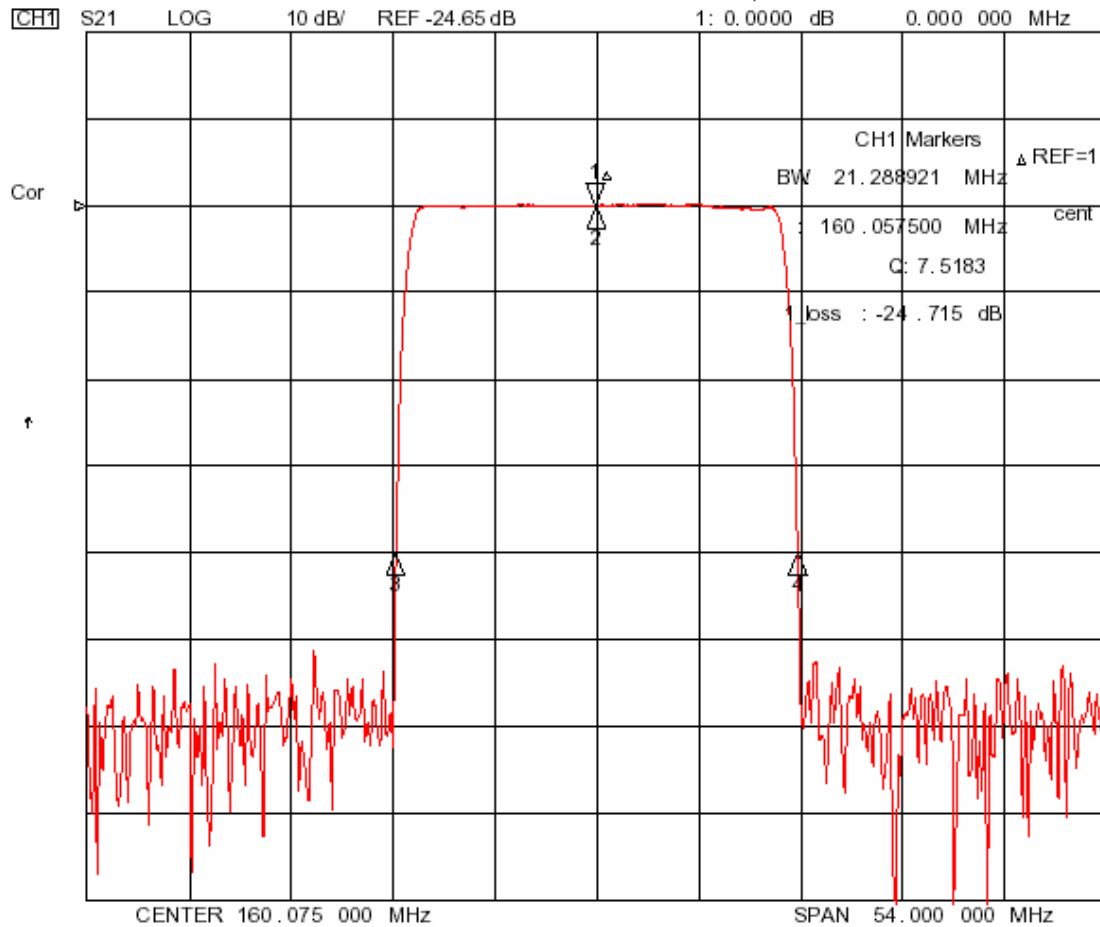
5-8-1 Pulling test

Weight along with the direction of lead without an shock 1kg. The device shall satisfy all the initial Characteristics.

5-8-2 Bending test

Lead shall be subject to withstand against 90℃ bending with 450g weight in the direction of thickness. This operation shall be done toward both direction. The device shall show no evidence of damage and shall satisfy all the initial electrical characteristics.

6. Typical frequency response



7. REMARK

7.1 Static voltage

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

7.2 Ultrasonic cleaning

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

7.3 Soldering

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