

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: **HDBF07009A24**

PREPARED 编制: _____ CHECKED 审核: **Houshihong**

APPROVED 批准: **CHARLES** DATE 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

1. SCOPE

This specification shall cover the characteristics of SAW filter with HDBF07009A24 used for the page system.

2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V
AC Voltage Vpp	10V50Hz/60Hz
Operation temperature	-20°C to +70°C
Storage temperature	-40°C to +85°C
RF Power Dissipation	0dBm

Electronic Characteristics

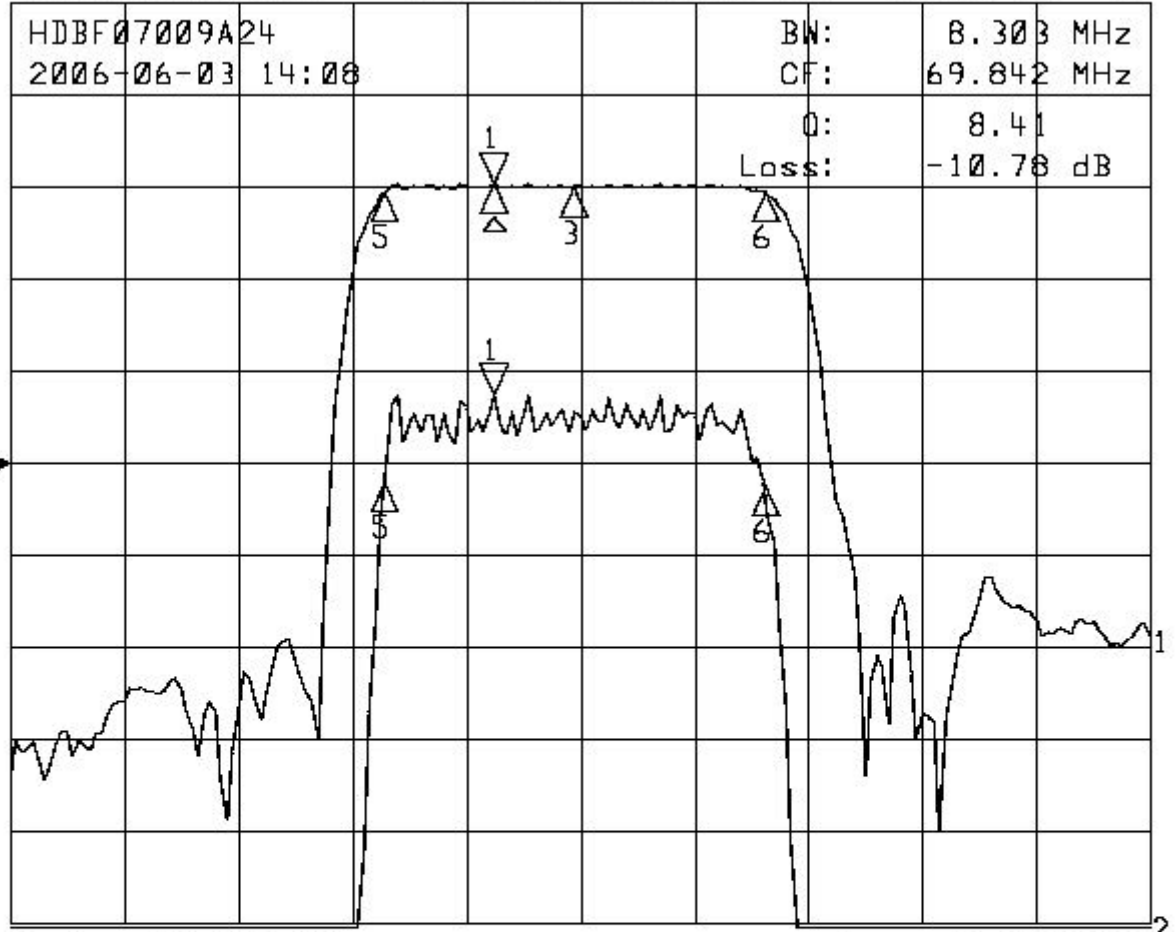
$F_0 = 70.0 \text{ MHz}$

Terminating source impedance: 50 ohm and matching network

Terminating load impedance: 50 ohm and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	69.8	70.0	70.2
Insertion Loss	dB	-	10.8	12.0
1dB Bandwidth	MHz	8.2	8.3	-
3dB Bandwidth	MHz	8.9	9.0	-
40dB Bandwidth	MHz	-	11.5	11.8
Amplitude Ripple ($F_0 \pm 4.0 \text{ MHz}$)	dB	-	0.6	1.0
Group Delay Variation ($F_0 \pm 4.0 \text{ MHz}$)	nsec	-	70	120
Absolute Delay	usec	-	1.47	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

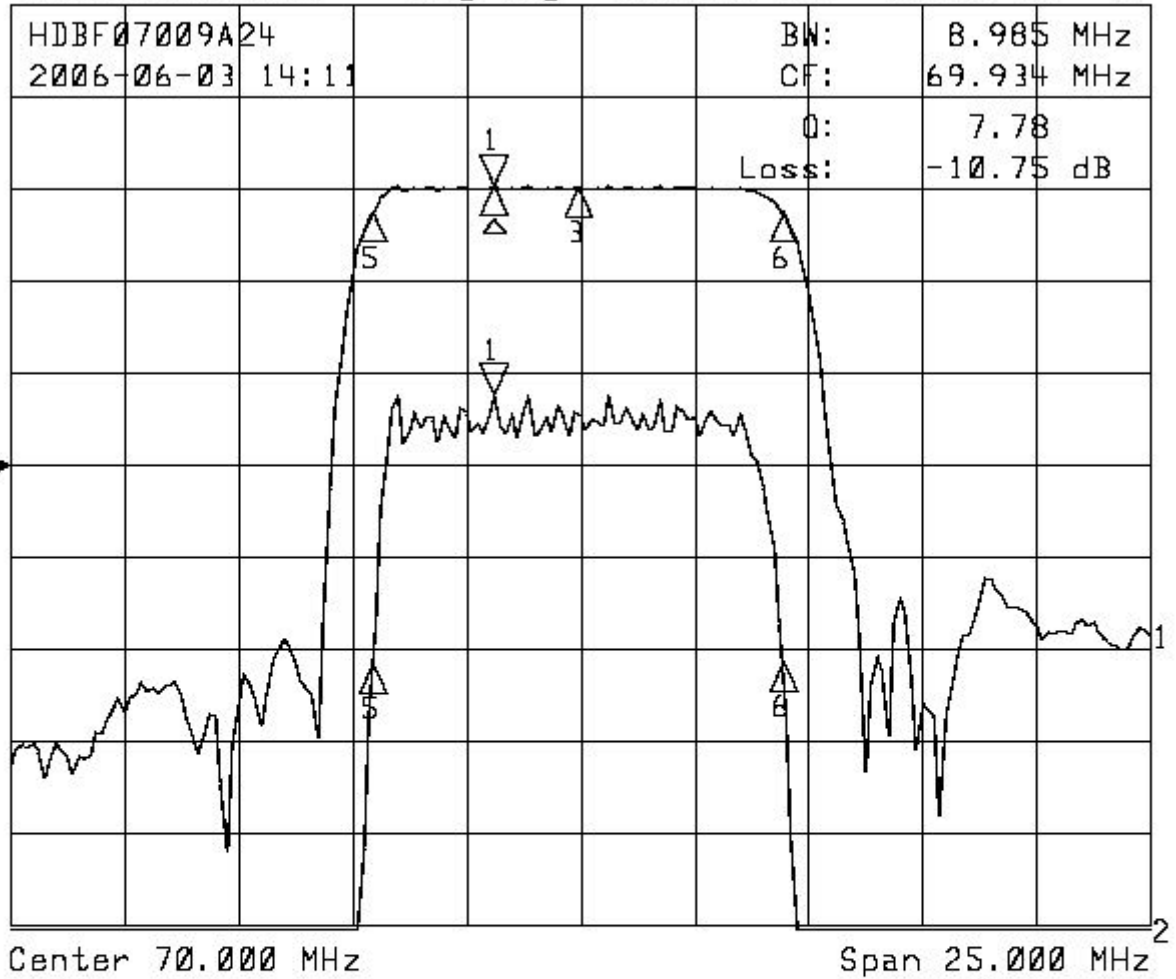
►1: Transmission Log Mag 10.0 dB/ Ref -40.92 dB C
 ►2: Transmission Log Mag 1.0 dB/ Ref -11.30 dB C



Center 70.000 MHz Span 25.000 MHz

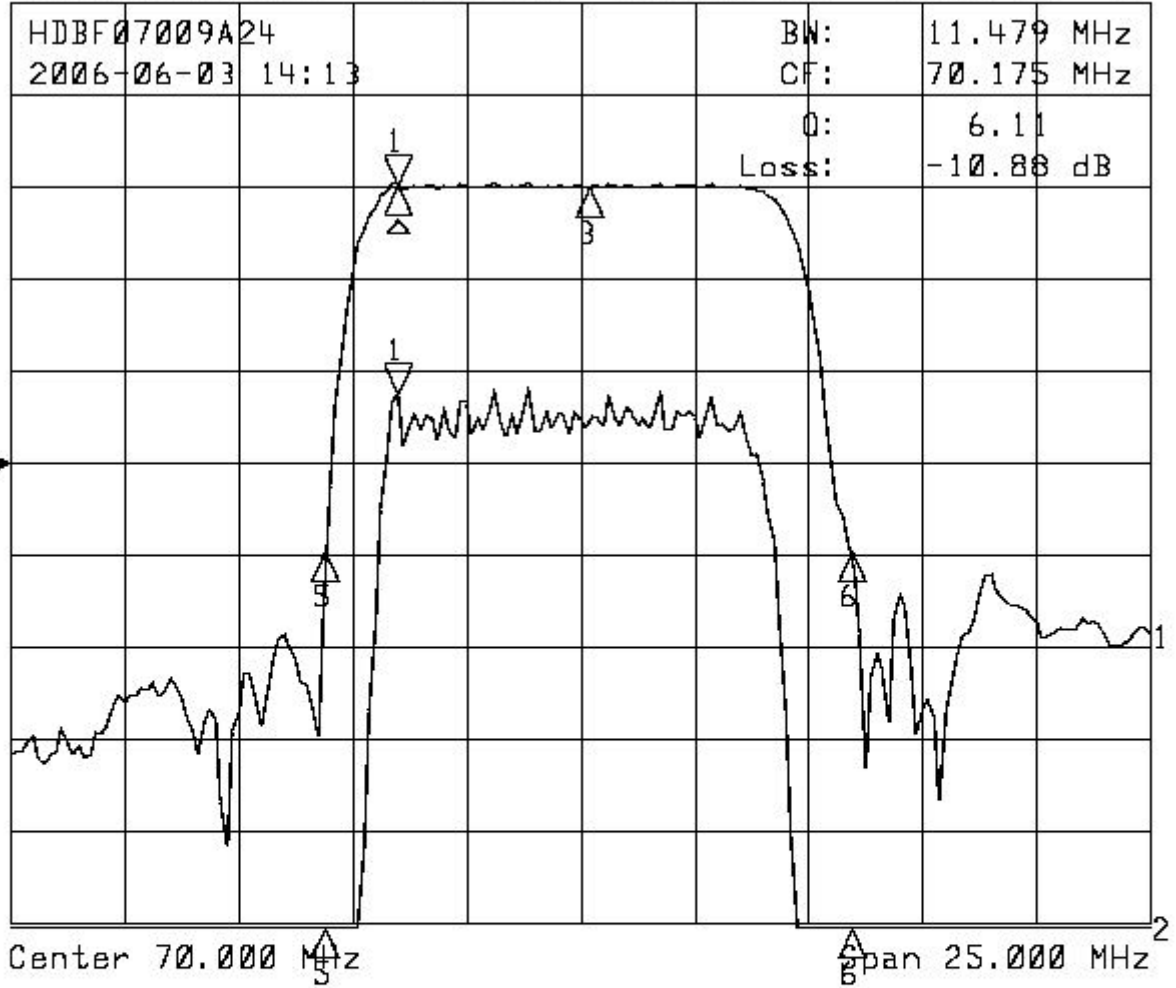
1: Mkr Δ(MHz)	dB	2: Mkr (MHz)	dB
1> 0.0000	0.000	1> 68.1250	-10.543
3: 1.7324	-0.288		
5: -2.4320	-1.000	5: 65.6930	-11.492
6: 5.8968	-1.000	6: 74.0218	-11.552

►1: Transmission Log Mag 10.0 dB/ Ref -40.92 dB C
 ►2: Transmission Log Mag 1.0 dB/ Ref -11.30 dB C



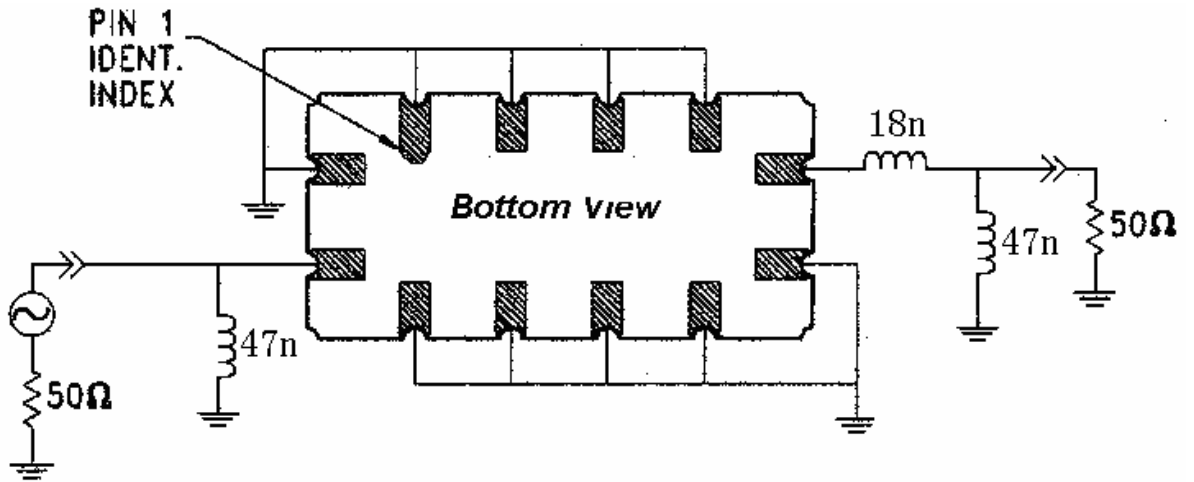
1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 0.0000	0.000	1> 68.1250	-10.532
3: 1.8095	-0.224		
5: -2.6830	-2.953	5: 65.4420	-13.462
6: 6.3019	-2.904	6: 74.4269	-13.422

►1: Transmission Log Mag 10.0 dB/ Ref -40.92 dB C
 ►2: Transmission Log Mag 1.0 dB/ Ref -11.30 dB C

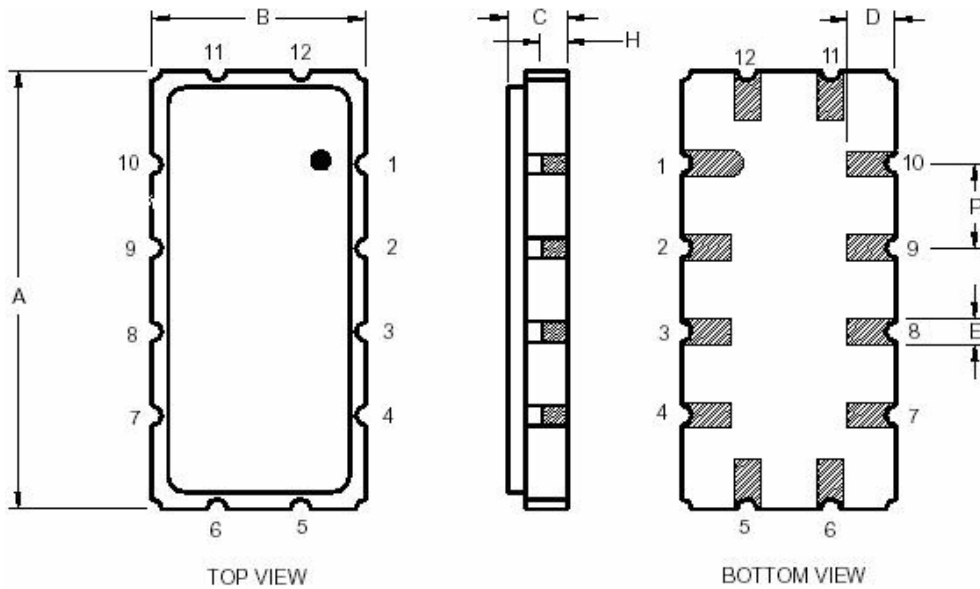


1: Mkr Δ(MHz)	dB	2: Mkr (MHz)	dB
1> 0.0000	0.000	1> 66.0000	-10.550
3: 4.1754	-0.274		
5: -1.5640	-39.739	5: 64.4360	-50.331
6: 9.9148	-39.811	6: 75.9148	-50.443

3. TEST CIRCUIT



4.DIMENSION



Pin Configuration	
11	Input
5	Output
Other	Ground

Dimension	mm		
	min	typ	max
A	13.1	13.3	13.5
B	6.3	6.5	6.7
C	1.21	1.36	1.51
D		1.5	
E		0.8	
H	0.72	0.76	0.80
P		2.54	

5. ENVIRONMENTAL CHARACTERISTICS

5-1 Temperature cycling

Subject the device to a low temperature of -40°C for 30 minutes. Following by a high temperature of $+25^{\circ}\text{C}$ for 5 Minutes and a higher temperature of $+85^{\circ}\text{C}$ for 30 Minutes. Then release the device into the room conditions for 1 to 2 hours prior to the measurement. It shall meet the specifications in table 1.

5-2 Resistance to solder heat

Submerge the device terminals into the solder bath at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 ± 1 sec. Then release the device into the room conditions for 4 hours. It shall meet the specifications in table 1.

5-3 Solderability

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

5-4 Mechanical shock

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

5-5 Vibration

Subject the device to the vibration for 2 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.

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.