SHOULDER ELECTRONICS CO., LTD

SPECIFICATION FOR APPROVAL

NO 编号:_____

户:					
口 口 :	SAW FILTER				
号:	HDF139Y F11				
制:	Fengyu	CHECKED	审	核:	York
准:	Lijiating	D A T E	日	期 :	2006-5-11
	品: 号: 制:	品: 号: 制: Fengyu	品: SAW FILTER 号: HDF139Y F1 制: Fengyu CHECKED	品: SAW FILTER 号: HDF139Y F11 制: Fengyu CHECKED 审	品: SAW FILTER 号: HDF139Y F11 制: Fengyu CHECKED 审 核:

CUSTOMER 客户确认意见:	
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CHECKED 审核:	
APPROVED 批 准:	
DATE 日期:	

公司地址: 广东深圳市福田区车公庙泰然工业区 303 栋 5 楼西座 West 5/F, 303 Bldg., Che Gong Miao, Industry Park, Futian Dist., Shenzhen, Guangdong, China. Tel: 86-755-82916880 Fax:86-755-82916881 工厂地址: 江苏无锡市滨湖经济技术开发区高运路 115 号 No. 115, Gaoyun road, Binhu Economic&Technology Development Area, Wuxi, Jiangsu, China Tel:86-510-5629111 Fax:86-510-5627222 Website:www.shoulder.cn

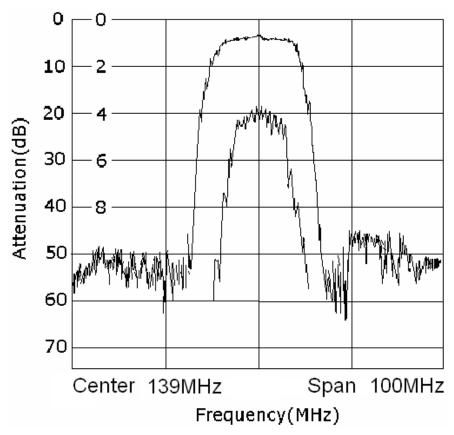
1. SCOPE

This specification shall cover the characteristics of SAW filter With SF139Y used for the page system.

2. ELECTRICAL SPECIFICATION

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

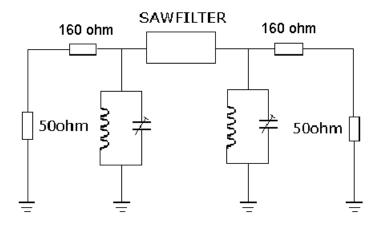
2-1.Typcal frequency response



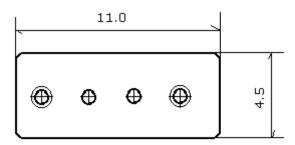
eristics

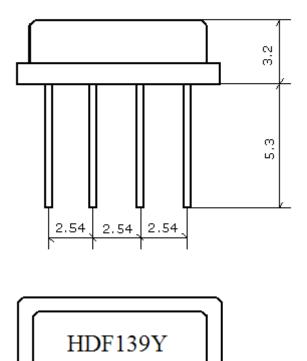
Part number	HDF139Y	Unit
Nominal center frequency (Fo)	139.0	MHz
Insertion Loss		
1.Fo -100MHz to Fo -46.8MHz	50 min	
2.Fo -46.8MHz to Fo-38.8MHz	50 min	dB
$3.Fo \pm 4MHz$	6.5 max	
$4.\text{Fo}\pm38.8\text{MHz}$ to $2.5\times\text{Fo}$	42 min	
Input/Output Impedance(Nominal)	210/-13.3	Ω/pF

3. TEST CIRCUIT



4. DIMENSION





5. ENVIRONMENTAL CHARACTERISTICS

5-1 High temperature exposure

Subject the device to $+85^{\circ}$ C 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° C 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° C for 30 minutes. Following by a high temperature of $+80^{\circ}$ C 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° C $\pm 10^{\circ}$ 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° C $\pm 5^{\circ}$ 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° C 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. 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.