



GUANGZHOU JINGYANG ELECTRONIC TECHNOLOGY CO., LTD.

SAW SPECIFICATION

APPLICATION	IF SAW filter for CDMA		
PRODUCTS	SAW		
HOLDER TYPE	SF 7050		
FREQUENCY	183.6MHz		
DATE	2010. 01. 22		
CODING P/N	SAW-7050F183.6A01		

APPROVED BY

Please return one copy with approval

GUANGZHOU JINGYANG ELECTRONIC TECHNOLOGY CO., LTD.

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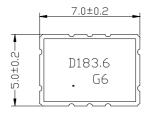


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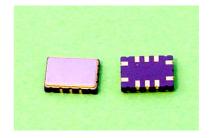
1. Package Dimension

(SF 7050)

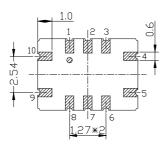
Unit: mm











Pin No.	Function	
Pin 9	Input	
Pin 10	Input(Balance)	
Pin 4	Output	
Pin 5	Output(Balance)	
Other	Ground	

2. Marking

D183.6

• G6

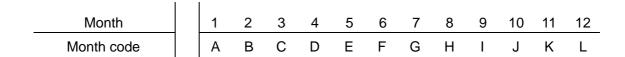
(1) Ink Marking or Laser Marking

(2) D: Manufacture's logo

(3) 183.6: Model code

(4) : Pin 1 Identifier(5) G6: Date code

G	6
Month code	Last figure of year



e.g.: "G6" means July of 2006





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3. Performance

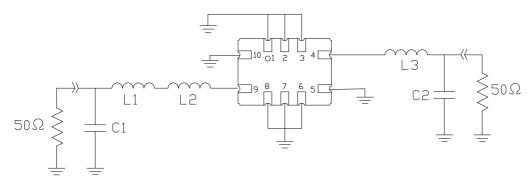
3.1 Maximum Rating

Item	Value
Operation Temperature Range	-40℃ to +85℃
Storage Temperature Range	-45℃ to +90℃
DC Permissive Voltage	10V DC max.
Maximum Input Power	10 dBm

3.2 Electronic Characteristics

Item	Frequency (MHz)	Specification
Center Frequency (fo)	183.6	
-5dB Pass Bandwidth		1.2MHz Min.
Insertion Loss		9.0 dB Max.
Ripple	fo-300KHz	1.0 dB Max.
Attenuation	fo -1.25	33 dB Min.
	fo - 900KHz	33 dB Min.
	fo + 900KHz	33 dB Min.
	fo + 1.25MHz	33 dB Min.
Group Delay Deviation	fo +/- 300KHz	500 ns

3.3Test Circuit



L1: 12nH; L2: 68nH; L3: 100nH

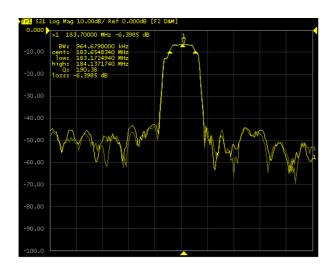
C1: 43pF; C2: 30pF





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3.3 Frequency Characteristics



4. Reliability

4.1 Resistance to Soldering heat:

- 4.1.1 The components shall remain within the electrical specifications after it soldered on the 1mm-thickness PCB board and dipped in the solder at 260°C ±5°C for 10±1 seconds.
- 4.1.2 The components shall remain within the electrical specifications after it soldered by electric iron, solder at 350 $^{\circ}$ C±10 $^{\circ}$ C for 3~4 seconds, recovery time : 2h±0.5h.

4.2 Thermal Shock:

The components shall remain within the electrical specifications after being kept at the condition of heat cycle conditions: TA=-40°C±3°C, TB=85°C±2°C, t1=t2=30min, switch time≤3min & cycle time: 100 times, recovery time: $2h\pm0.5h$.

4.3 The Temperature Storage:

- 4.3.1 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 500 hours, recovery time : $2h \pm 0.5h$.
- 4.3.2 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 500 hours, recovery time : $2h\pm0.5h$.





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4.4 Humidity test:

The components shall remain within the electrical specifications after being kept at the condition of ambient temperature 60 $^{\circ}$ C±2 $^{\circ}$ C, and 90~95% RH for 500 hours.

4.5 Drop test:

The components shall remain within the electrical specifications after random free drops 10 times from height of 1.0 meter onto concrete floor, and the specimens shall meet the electrical specifications in table 5, external visual inspection.

4.6 Solderability test:

at the condition of temperature 245 $^{\circ}$ C ±5 $^{\circ}$ C Depth: DIP 2/3 , SMD 1/5, time: 3.0s-5.0s, 80% or more of the immersed surface shall be covered with solder and well-proportioned.

4.7 Vibration Fatigue:

The components shall remain within the electrical specifications after loaded vibration at 10~55Hz, amplitude 1.5mm, X, Y, Z, direction, for 2 hours.

4.8Terminal strength:

The force 10±1 seconds of 19.6N is applied to each terminal, and 45° in the same direction 2 times with 2N bending force (Exception: SMD)

4.9 Mechanical Shock:

The components shall remain within the electrical specifications after 1000 shocks, acceleration $392 \, \text{m/s}^2$, duration $6 \, \text{ms}$.

Note: As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to ESD protect in the test.

5. Remarks

5.1 Static voltage

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

5.2 Ultrasonic cleaning

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

5.3 Soldering

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