0.5 dB Max.





1.SCOPE:

This specification shall cover the characteristics of SAW filter with Strong's P/N: SG8127M

2. SYSTEM: B/G

3. APPLICATION: TV IF FILTER

4. ELECTRICAL CHARACTERISTICS

4-1 Insertion Loss: Standards±2 dB

4-2 Attenuation (ref.: 37.4 MHz):

| fp-8 | 30.90 MHz | -42.0 dB Max. |
|---------|-----------|---------------|
| fp-7 | 31.90 MHz | -42.0 dB Max. |
| fp-5.5 | 33.40 MHz | -19.0±2.0 dB |
| fp-4.43 | 34.47 MHz | -3.8±1.5 dB |
| fp | 38.90 MHz | -6.0±1.2 dB |
| fp+1.5 | 40.40 MHz | -42.0 dB Max. |
| fp+2.5 | 41.40 MHz | -37.0 dB Max. |

4-3 Amplitude ripple within passband:

4-4 Outband Rejection:

25.00 to 30.90 MHz -35.0 dB Max. 40.40 to 45.00 MHz -33.0 dB Max.

4-5 Temperature Cofficient Of Center Frequency: -75 ppm/°C Max. 4-6 Maximum DC Voltage: 10V DC.

4-7 Operating Temperature Range: -10°C to +70°C

4-8 Storage Temperature Range: -20°C to +80°C

5. RELIABILITY TEST

5.1 Humidity, temperature Test

| ITEM | REQUIREMENT | JUDGEMENT |
|---|--|---|
| High temperature storage Low temperature storage High-low temperature cycle | T=+85±2°C Duration time 500H Being placed in natural condition for 2±.5hours T=-40±3°C Duration time 500H Being placed in nature condition for 2±5hours It shall be placed at temperature of -40°C±3°C for 30 minutes, then within 3 minutes replaced at temperature of +85°C±2°C for 30 minutes, and vice versa. Totally cycle 100 times. It shall be placed in | 1.No visible damage clear marker 2. Other electric characteristics should be fit for the provided characteristics in the form 3.4 after testing |
| Humidity resistance test | natural condition for 2±0.5 hours. T=60°C±2°C, RH=90~95% Duration time 500H.Being placed in natural condition for 2±0.5 hours | |



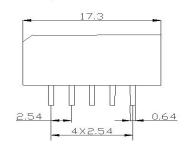
5.2 Solder-heat Resistance Test

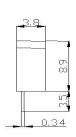
| ITEM | REQUIREMENT | JUDGEMENT |
|---------------------------|---|--|
| Solder-heat Resistance | (1) Soldering trough: The 1mm thick PCB fixed with device are immersed in solder trough of 260±5°C for 10±1 seconds. And then it shall be measured after being placed in natural condition for2±0.5 hours. (2) Manual soldering with electrical soldering iron: T=350±10°C for 3-4 seconds. And then it shall be measured after being placed in natural condition for 2±0.5hours | Same as judgement of 6.1 |
| solderability | Lead terminals are immersed in solder bath of 245±5°C for 3-5 seconds. | The solder shall cover at least 80% of the lead terminal |
| reflow soldering | Repeated 3 times after being on PCB under following condition: 260°c 240°c 220°c 200°c 1015. | Same as judgement of 6.1 |

6. PACKAGE DIMENSION M:SIP5K

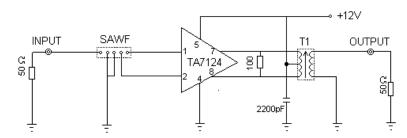
- 1. INPUT
- 2. INPUT
- 3. GROUND
- 4. OUTPUT
- 5. OUTPUT





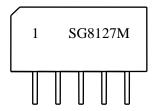


7. MEASUREMENT CIRCUIT



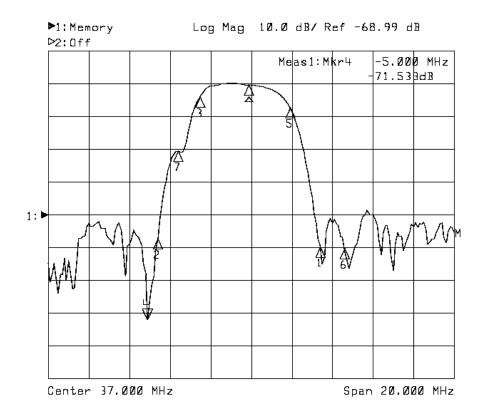


8.MARKING



SG8127M MODEL 1 PIN NO.1 MARK

9.FREQUENCY RESPONSE



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