



1.SCOPE:

This specification shall cover the characteristics of SAW filter with Strong’s P/N: SK2747M

2. SYSTEM: D/K, B/G, M/N

3. APPLICATION: TV IF FILTER

4. ELECTRICAL CHARACTERISTICS

4-1 Characteristics in D/K, B/G Mode (switching pin 2 connected to ground)

Insertion Loss:	37.40Hz	Standards±2dB
<u>Relative Attenuation:</u>		
fp-8	30.90 MHz	-43.5 dB Max.
fp-7	31.90 MHz	-36.0 dB Max.
fp-5	32.40 MHz	-20.5±2.0 dB
fp-4	33.40 MHz	-18.0±2.0 dB
fp-2.93	34.47 MHz	-1.2 ±2.0 dB
fp	38.90 MHz	-6.5 ±2.0 dB
fp+1.5	40.40 MHz	-40.0 dB Max.
fp+2.5	41.40 MHz	-39.5 dB Max.
<u>Outband Rejection:</u>		
25.00 MHz to 30.90 MHz		-35.0 dB Max.
40.40 MHz to 45.00 MHz		-33.0 dB Max.

4-2 Characteristics in M/N Mode (switching pin 2 connected to pin 1)

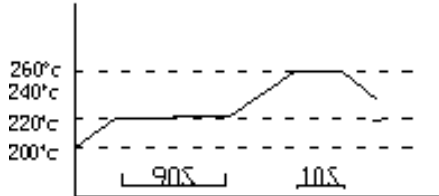
Insertion Loss:	37.40 MHz	Standard+2 dB
<u>Relative Attenuation:</u>		
fp-6	32.90 MHz	-39.5 dB Max.
fp-4.5	34.40 MHz	-17.8±2.0 dB
fp-3.58	35.32 MHz	-0.8 ±2.0 dB
fp	38.90 MHz	-6.5 ±2.0 dB
fp+1.5	40.40 MHz	-40.5 dB Max.
<u>Outband Rejection:</u>		
25.00 MHz to 32.90 MHz		-35.0 dB Max.
40.40 MHz to 45.00 MHz		-30.5 dB Max.
4-3 Temperature Coefficient of Center Frequency:		-75 ppm/°C Max.
4-4 Maximum DC voltage		10V DC.
4-5 Operating Temperature Range:		-10°C to +70°C
4-6 Storage Temperature Range:		-20°C to +80°C

5. RELIABILITY TEST

5.1 Humidity, temperature Test

ITEM	REQUIREMENT	JUDGEMENT
High temperature storage	T=+85±2°C Duration time 500H Being placed in natural condition for 2±.5hours	1.No visible damage clear marker 2. Other electric characteristics should be fit for the provided characteristics in the form 3.4 after testing
Low temperature storage	T= -40±3°C Duration time 500H Being placed in nature condition for 2±5hours	
High-low temperature cycle	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 natural condition for 2±0.5 hours.	
Humidity resistance test	T=60°C±2°C, RH=90~95% Duration time 500H. Being placed in natural condition for 2±0.5 hours	

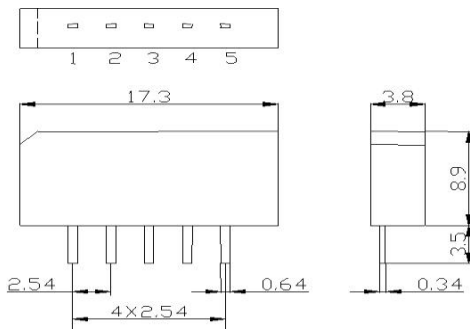
5.2 Solder-heat Resistance Test

ITEM	REQUIREMENT	JUDGEMENT
Solder-heat Resistance	(1) Soldering trough: The 1mm thick PCB fixed with device are immersed in solder trough of $260\pm 5^{\circ}\text{C}$ for 10 ± 1 seconds. And then it shall be measured after being placed in natural condition for 2 ± 0.5 hours. (2) Manual soldering with electrical soldering iron: $T=350\pm 10^{\circ}\text{C}$ for 3-4 seconds. And then it shall be measured after being placed in natural condition for 2 ± 0.5 hours	Same as judgement of 6.1
solderability	Lead terminals are immersed in solder bath of $245\pm 5^{\circ}\text{C}$ 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: 	Same as judgement of 6.1

6. PACKAGE DIMENSION

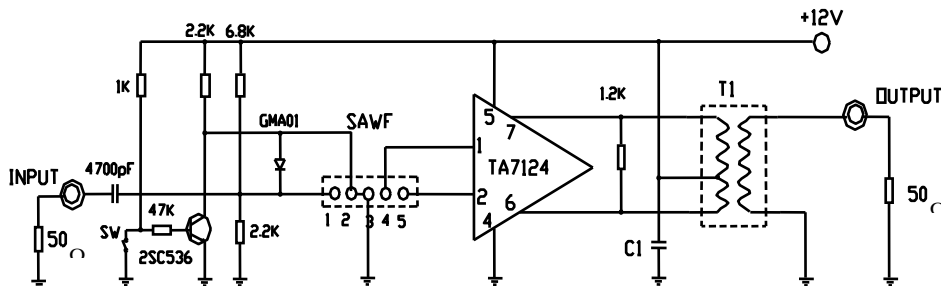
Unit: mm

M:SIP5K

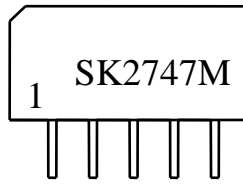


- 1. INPUT
- 2. SWITCHING INPUT
- 3. GROUND
- 4. OUTPUT
- 5. OUTPUT

7. MEASUREMENT CIRCUIT



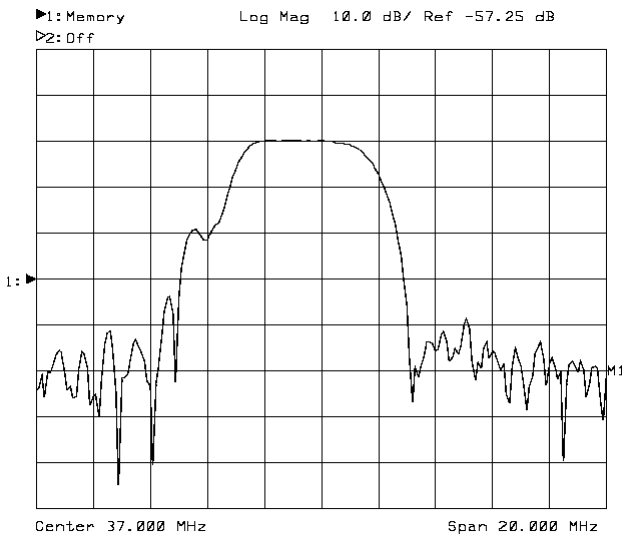
8. MARKING



S . Trade Mark
 K2747M . Model
 1 . Pin 1

9.FREQUENCY RESPONSE

D/K B/G CHANNEL



M/N CHANNEL

