

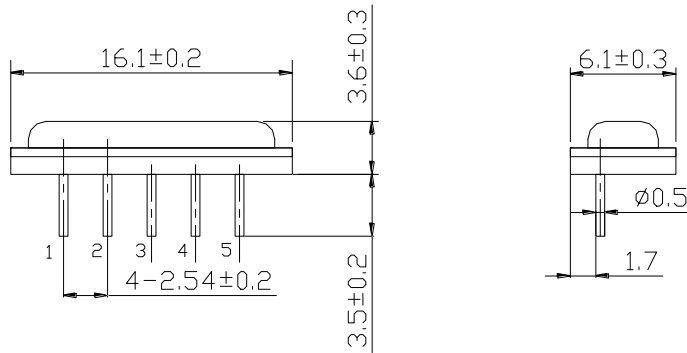


Range:

This specification shall cover the characteristics of SAW filter with Strong's P/N: SD8938

1. Package Dimension

(S-6BA)



Unit: mm

Pin No. Functions

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

2. Marking

S
D8938

Trademark
Model No.

3. Performance

3.1 Use: SAW Filter for Intercarrier

3.3 MAXIMUM RATINGS

DC voltage	V_{DC}	12	V	Between any terminals
AC voltage	V_{PP}	10	V	Between any terminals
Operating Temperature Range	T_A	-25~65	°C	
Storage Temperature Range	T_{stg}	-40~85	°C	

3.4 Electronic Characteristics

Reference temperature: $T_a=25^{\circ}\text{C}$

Terminating source impedance $Z_S=50\Omega$

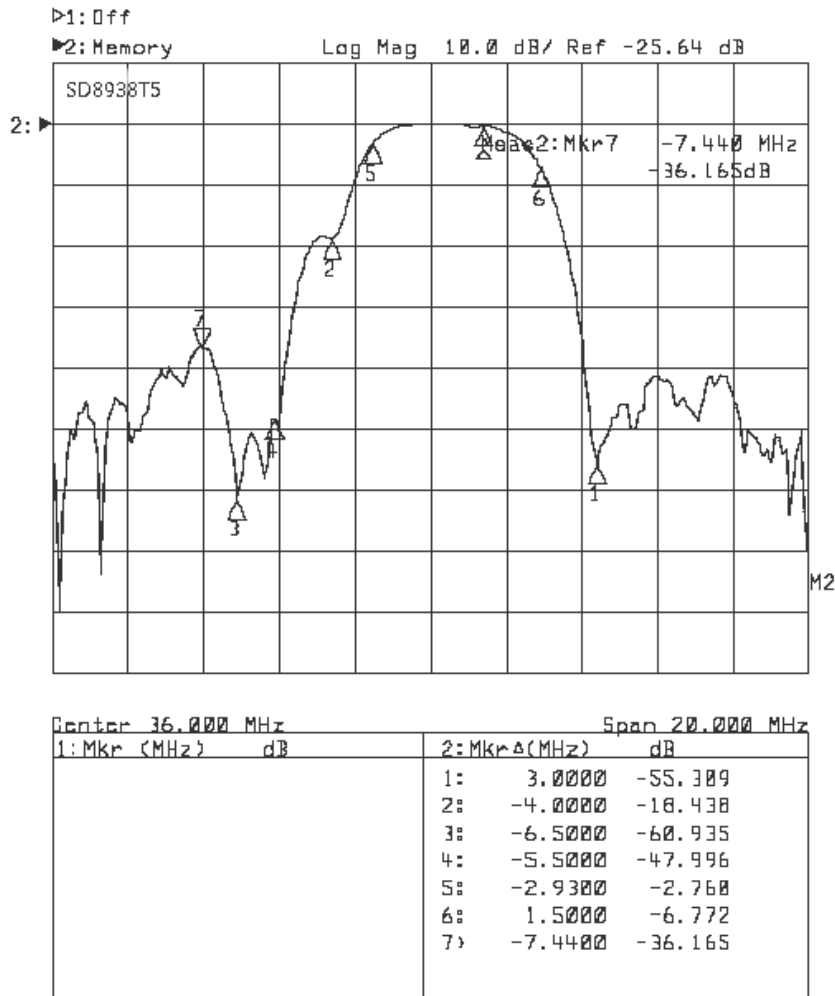
Terminating load impedance $Z_L=50\Omega$

3.4.1. Amplitude Characteristics

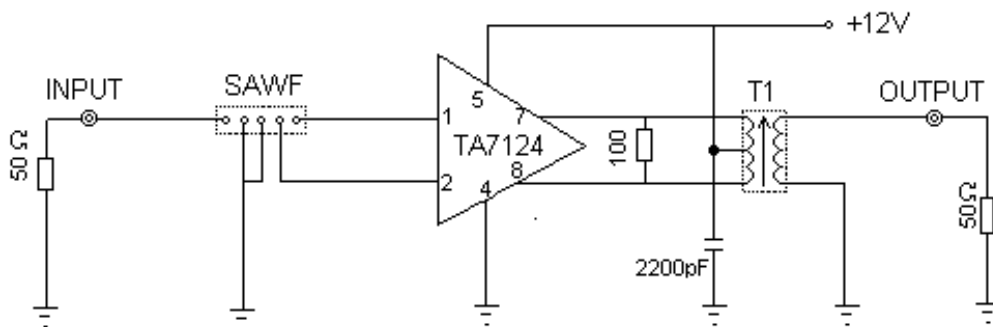
Video Channel Frequency Characteristics

		MIN.	TYP.	MAX.	
Insertion attenuation					
Reference level for the		-	-	-	dB
Following data	36.90 MHz				
Adjacent picture carrier	31.90 MHz	42.0	-	-	dB
Sound carrier	33.40 MHz	17.5	20.0	22.5	dB
Color carrier	34.47 MHz	1.5	3.0	4.5	dB
Picture carrier	38.90 MHz	5.2	6.7	8.2	dB
Adjacent sound carrier	40.40 MHz	42.0	-	-	dB
	41.40 MHz	40.0	-	-	dB
Lower side lobe	26.00-30.90 MHz	34.0	-	-	dB
Upper side lobe	40.40-46.00 MHz	33.0	-	-	dB
Reflected Wave Signal Suppression		42.0	52.0		dB
Feed through Signal Suppression		50.0	56.0		dB
Temperature Coefficient of frequency		-	-72.0	-	ppm/K

3.5 Frequency Characteristics



4. Test Circuit



5. RELIABILITY TEST

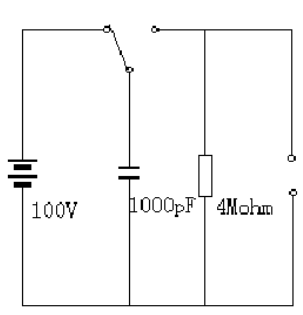
5.1 Environmental Performance Characteristics

Item Test condition	Allowable change of absolute Level at center frequency(dB)
High temperature test 70°C 1000H	< 1.0
Low temperature test -40°C 1000H	< 1.0
Humidity test 40°C 90-95% 1000H	< 1.0
Thermal shock -20°C==25°C==80°C 20 cycle 30M 10M 30M	< 1.0
Solder temperature test Sold temp.260°C for 10 sec.	< 1.0
Soldering Immerse the pins melt solder at 260°C+5/-0°C for 5 sec.	More then 95% of total area of the pins should be covered with solder

5.2 Mechanical Test

Item Test condition	Allowable change of absolute Level at center frequency(dB)
Vibration test 600-3300rpm amplitude 1.5mm 3 directions 2 H each	<1.0
Drop test On maple plate from 1 m high 3 times	<1.0
Lead pull test Pull with 1 kg force for 30 seconds	<1.0
Lead bend test 90° bending with 500g weigh 2 times	<1.0

5.3 Voltage Discharge Test

Item Test condition	Allowable change of absolute Level at center frequency(dB)
<p style="text-align: center;">Surge test</p> <p>Between any two electrode</p> 	<p><1.0</p>

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