



Data Sheet

70MHz IF SAW Filter

SPTF0280

V1.0

Description:

The Spectron SPTF0280 is a IF SAW filter designed for applications in wireless module and repeater and Information& Communications filed .

The SPTF0280 provides +10 dBm power handling, low insertion loss and high out of band rejection.

The design and manufacturing of the SPTF0280 exploit Spectron's exclusive TSAW technology to deliver competitive performance against state of the art at a low cost.

The SPTF0280 is compatible with high volume, lead-free SMT soldering processes.

Features:

- Single-Ended Input and Output
- Terminating Impedance: 50 Ω
- RoHS Compliant

Specifications:

- Operation Temperature:-40°C to +85°C
- 3dB passband 0.35 MHz
- Compact miniature size
13.30x6.50x1.80mm³

Applications:

- Information& Communications Devices
- Repeater
- Wireless module

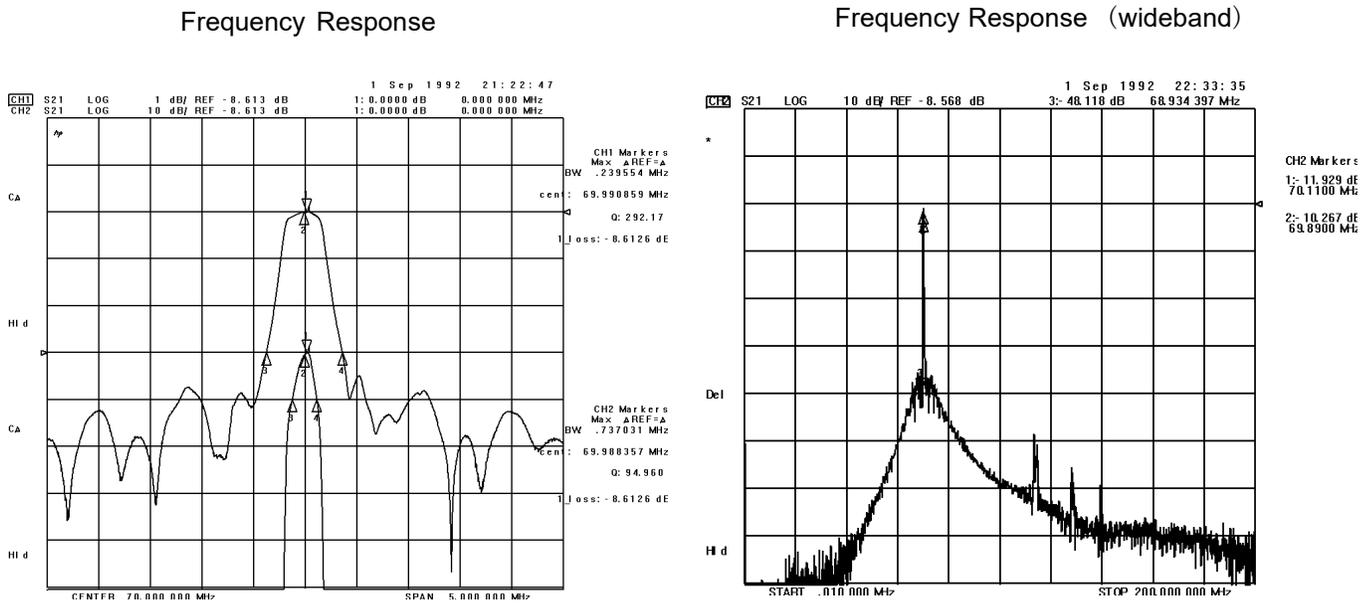
Electrical Specifications

Table 1 Electrical Specifications.

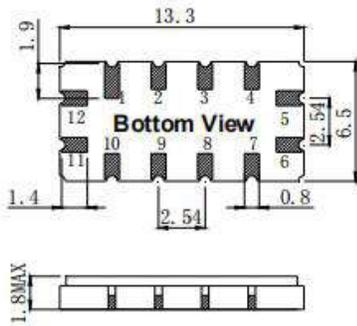
Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc	69.9	70.0	70.1	MHz
Insertion Loss(min)	IL		10.5	11.5	dB
Amplitude Ripple (p-p)	$\Delta\alpha$		0.3	1.0	dB
3 dB Bandwidth	BW _{3dB}	0.30	0.35	0.38	MHz
30 dB Bandwidth	BW _{30dB}		0.7	0.8	MHz
Absolute Attenuation	α				
	DC -69.00 MHz	35.0	38.0		dB
	71.00-200.00 MHz	35.0	36.0		dB

1. Min/Max specifications are guaranteed at the indicated temperature (unless otherwise noted).
2. Typical data is the average value (arithmetic mean) of the parameter over the indicated band at +25°C
3. Terminating source impedance: 50Ω
Terminating load impedance: 50Ω

Figure 1 Electrical Characteristics: Frequency response.

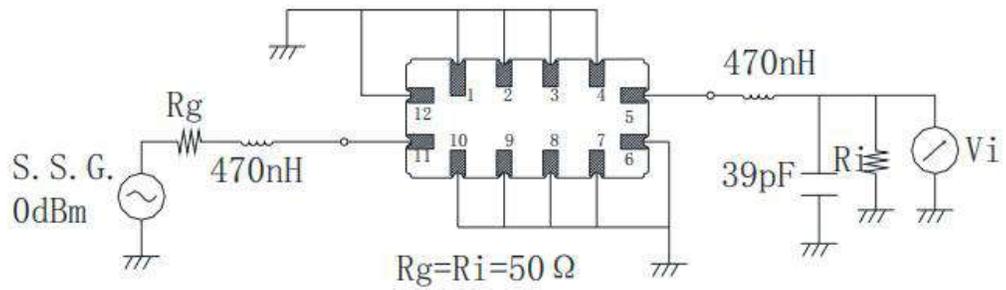


Package & Dimensions



Pin No.	Description
11	Input
5	Output
1,2,3,4,6,7,8,9,10,12	Ground

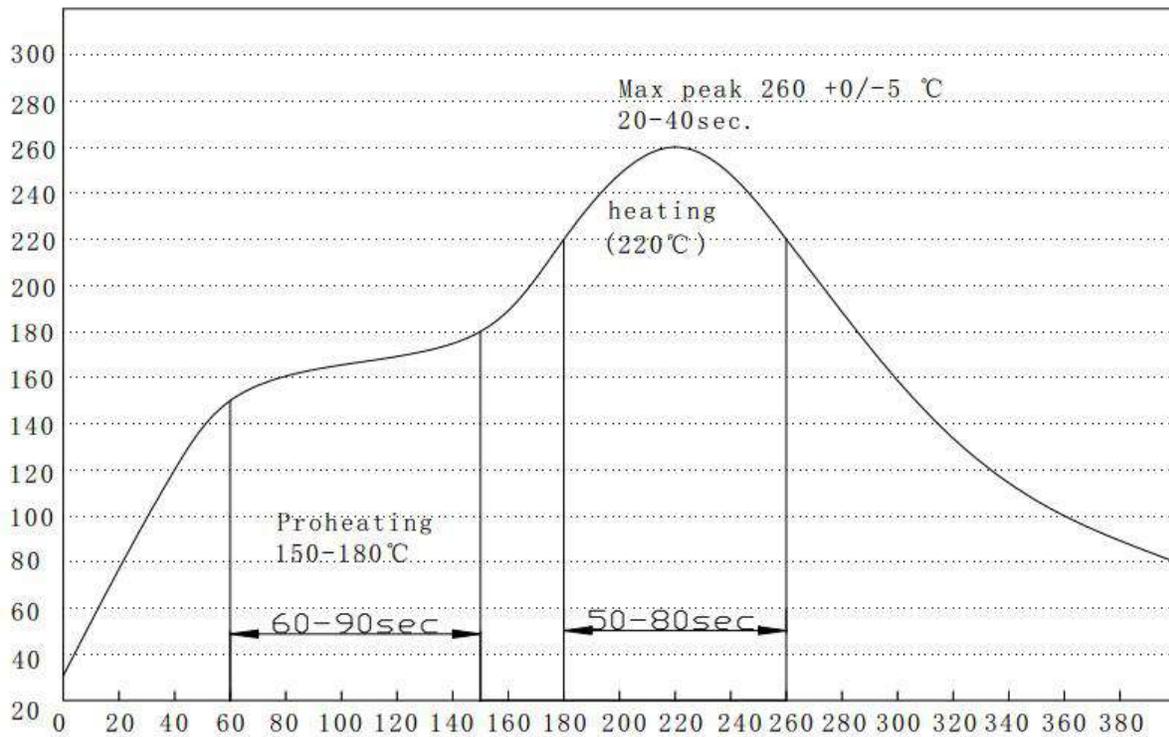
Test circuit



Maximum Ratings

Item		Value	Unit
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T _{stg}	-55 ~ +125	°C
RF Power Dissipation	P	10	dBm

Recommended SMT Solder Profile



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