



Data Sheet
1588MHz SAW 3030
SPT1588M3030A

V1.0

Description:

The Spectron SPT1588M3030A is a SAW filter that work frequency ranges from 1560 to 1616MHz. It is designed for applications in GNSS, IOT equipments and Information & Communications filed.

The SPT1588M3030A provides +20 dBm power handling, low insertion loss and high out of band rejection.

The design and manufacturing of the SPT1588M3030A exploit Spectron's exclusive TSAW technology to deliver competitive performance against state of the art at a low cost.

The SPT1588M3030A 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
- Usable passband 56.0 MHz
- Compact miniature size
 - 3.0 mm \times 3.0 mm footprint
 - 1.25 mm max-height

Applications:

- GNSS
- IOT equipments
- Information & Communications Devices

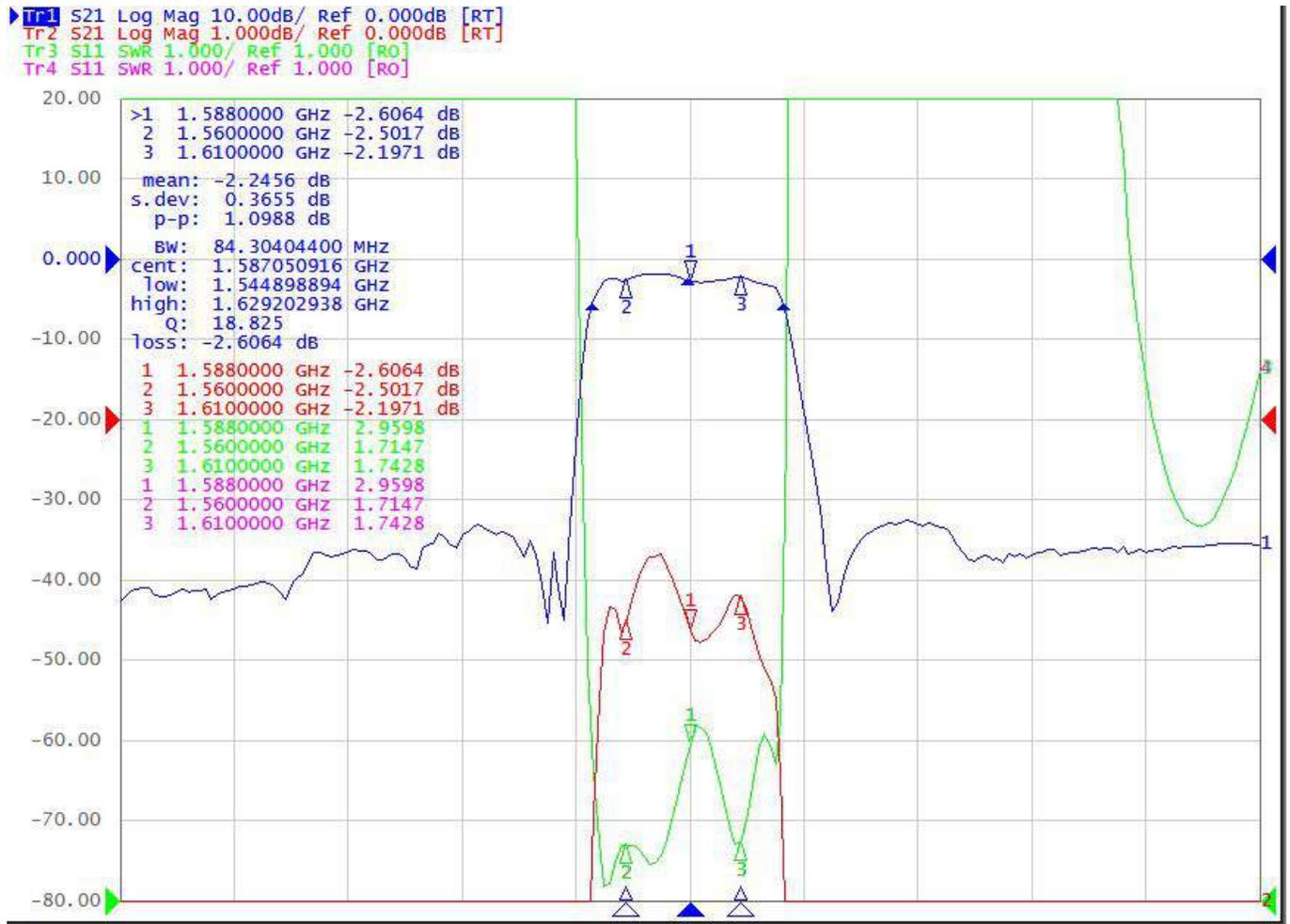
Electrical Specifications

Table 1 Electrical Specifications.

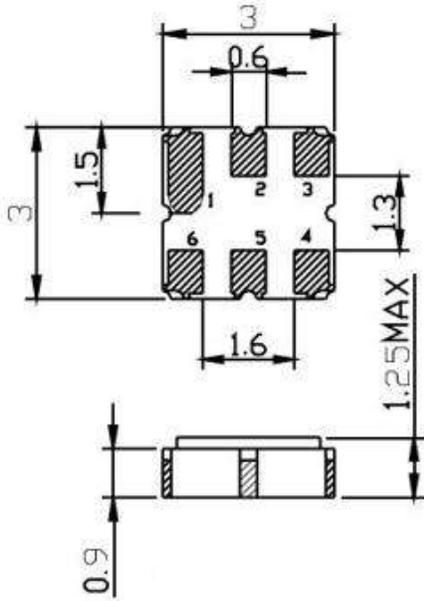
Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		1588.00		MHz
Insertion Loss((1560~1616 MHz)	IL		2.6	3.5	dB
Amplitude Ripple (p-p) (1560~1616MHz)	Δa		0.8	2.0	dB
Attenuation	a				
100~1400 MHz		38.0	45.0		dB
1400~1525 MHz		25.0	35.0		dB
1645~1650 MHz		8.0	25.0		dB
1650~1840 MHz		25.0	30.0		dB
1840~2000 MHz		33.0	38.0		dB
2000~2500 MHz		30.0	-		
VSWR					
1560~1616 MHz			2.0	2.5	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

Figure 1 Electrical Characteristics: Frequency response.

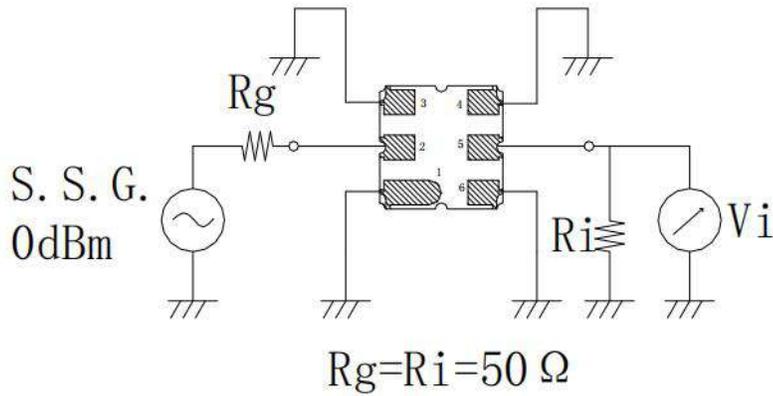


Package & Dimensions



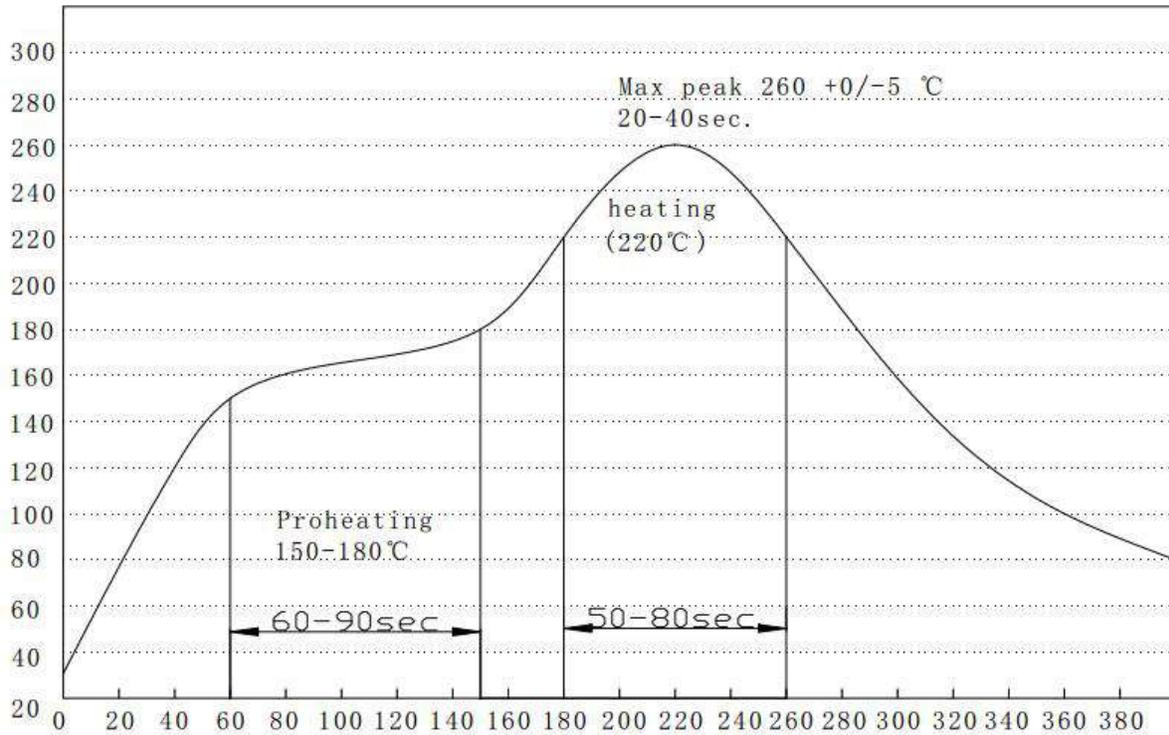
Pin No.	Description
2	Input
5	Output
1,3,4,6	Ground

Test circuit



Maximum Ratings

Item		Value	Unit
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C
RF Power Dissipation	P	20	dBm

Recommended SMT Solder Profile**Ordering Information**

Part Number	Number of Devices	Container
SPT1588M3030A	1000pcs	Tape and Reel

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