



**Data Sheet**  
**2655MHz SAW 3030**  
**SPT2655M3030A**

V1.0

**Description:**

The Spectron SPT2655M3030A is a SAW filter that designed for applications in IOT equipments and Information& Communications filed.

The SPT2655M3030A provides +20 dBm power handling, low insertion loss and high out of band rejection.

The design and manufacturing of the SPT2655M3030A exploit Spectron's exclusive TSAW technology to deliver competitive performance against state of the art at a low cost.

The SPT2655M3030A is compatible with high volume, lead-free SMT soldering processes.

**Features:**

- Single-Ended Input and Output
- Terminating Impedance: 50  $\Omega$
- RoHS Compliant

**Specifications:**

- Operation Temperature: -40°C to +85°C
- Usable passband 70.0 MHz
- Compact miniature size
  - 3.0 mm  $\times$  3.0 mm footprint
  - 1.25 mm max-height

**Applications:**

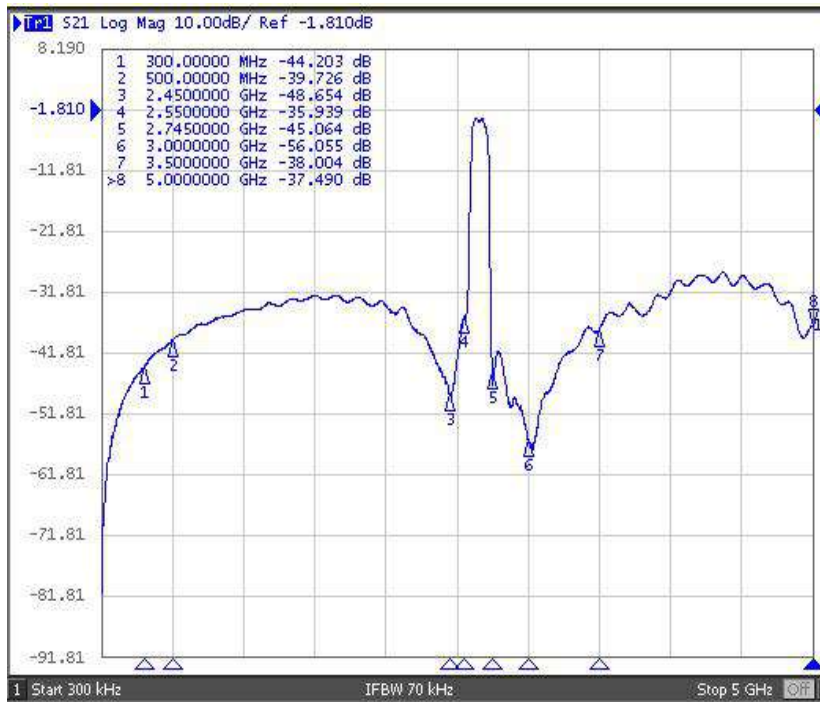
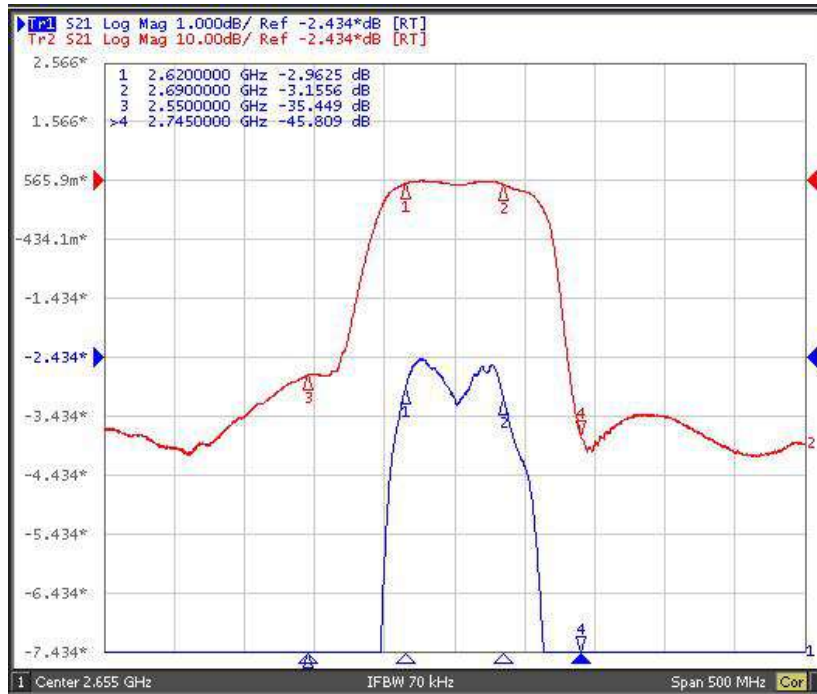
- IOT equipments
- Information& Communications Devices

**Electrical Specifications****Table 1** Electrical Specifications.

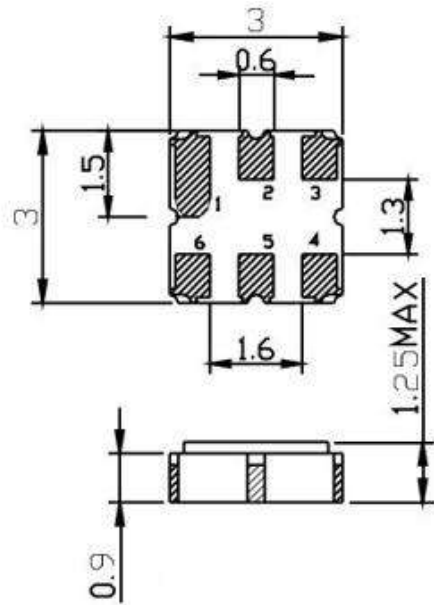
Test Temperature: 25°C±2°C

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		2655.00		MHz
Insertion Loss(min)	IL		2.5	3.2	dB
Insertion Loss	IL		3.2	4.0	dB
2620.00 - 2690.00 MHz					
Amplitude Ripple (p-p)	$\Delta\alpha$		0.7	2.0	dB
2620.00 - 2690.00 MHz					
Group Delay Ripple	GDR		5.0	20.0	ns
2620.00 - 2690.00 MHz					
Absolute Attenuation	$\alpha$				
300 – 500.00 MHz		30.0	35.0		dB
500.00 – 2450.00 MHz		25.0	30.0		dB
2450.00 – 2550.00 MHz		28.0	32.0		dB
2745.00 – 3000.00 MHz		35.0	38.0		dB
3000.00 – 3500.00 MHz		30.0	35.0		dB
3500.00 – 5000.00 MHz		20.0	25.0		dB
Input VSWR			2.0:1	2.2:1	/
2620.00 - 2690.00 MHz					
Output VSWR			2.0:1	2.2:1	/
2620.00 - 2690.00 MHz					

Figure 1 Electrical Characteristics: Frequency Response

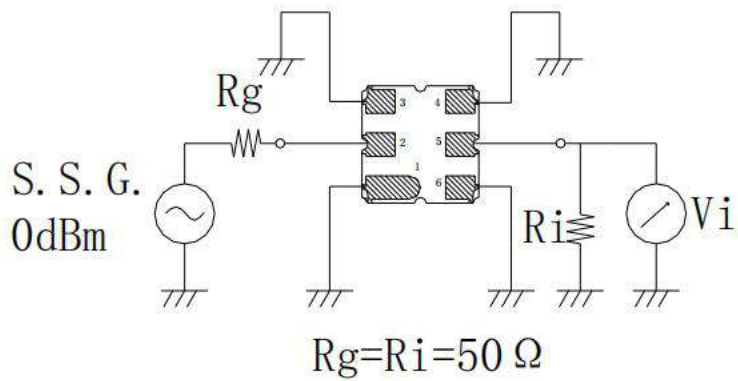


**Package & Dimensions**



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 <sub>stg</sub>	-40 ~ +125	°C
RF Power Dissipation	P	20	dBm



4	Vibration Fatigue	Frequency of vibration: 10~55Hz Directions: X,Y and Z	Amplitude:1.5mm Duration: 2h
5	Drop Test	Cycle time: 10 times	Height: 1.0m
6	Solder Ability Test	Temperature: 245°C±5°C Depth: DIP--2/3 , SMD--1/5	Duration: 3.0s--5.0s
7	Resistance to Soldering Heat	(1) Thickness of PCB:1mm , Solder condition: 260°C±5°C , Duration: 10±1s (2) Temperature of Soldering Iron: 350°C±10°C, Duration: 3~4s, Recovery time : 2 ± 0.5h	

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