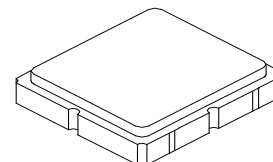


SF2387E

**954.3 MHz
SAW Filter**



SM3030-6

- **3.0 x 3.0 x 1.3 mm Package**
- **Complies with Directive 2002/95/EC (RoHS)**
- **Moisture Sensitivity Level: 1**

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+10	dBm
DC voltage	3	VDC
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C

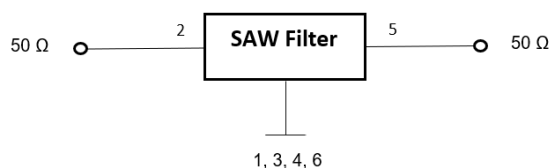
Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Nominal Operating Frequency	f_c			954.3		MHz
Insertion Loss (949.3 to 959.3 MHz)	IL			1.6	3.0	dB
Amplitude Ripple (949.3 to 959.3 MHz)				0.3	1.8	dB
Attenuation (Reference level from 0 dB)		355 to 920 MHz	33	41		dB
		985 to 1555 MHz	35	44		dB
VSWR (949.3 to 959.3 MHz)				1.5	2.0	
Temperature Coefficient of Frequency				-36		ppm/k

Case Style	SM3030-6 3 x 3 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=shift)	6U, <u>YWWS</u>

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All others

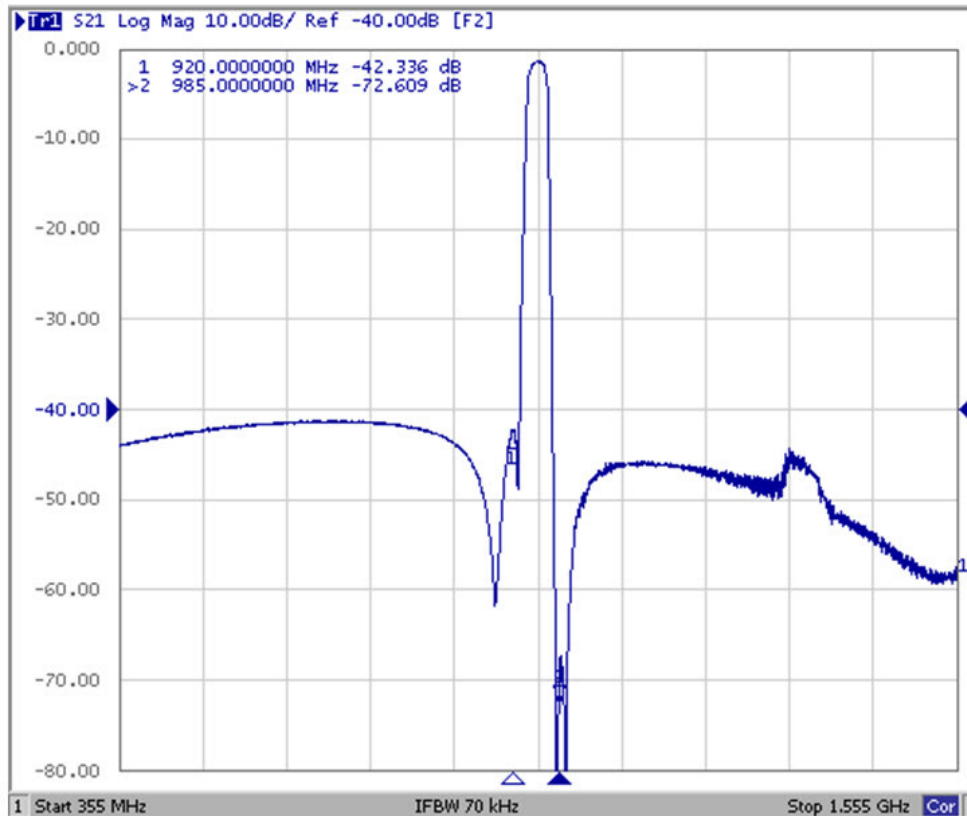
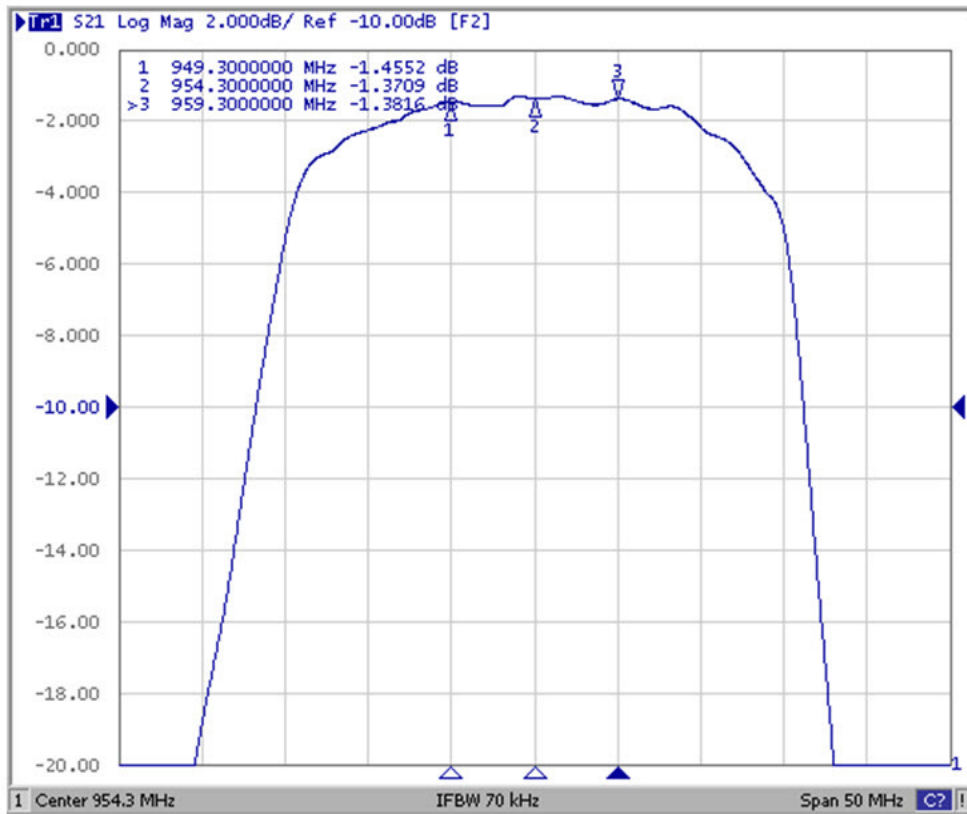


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

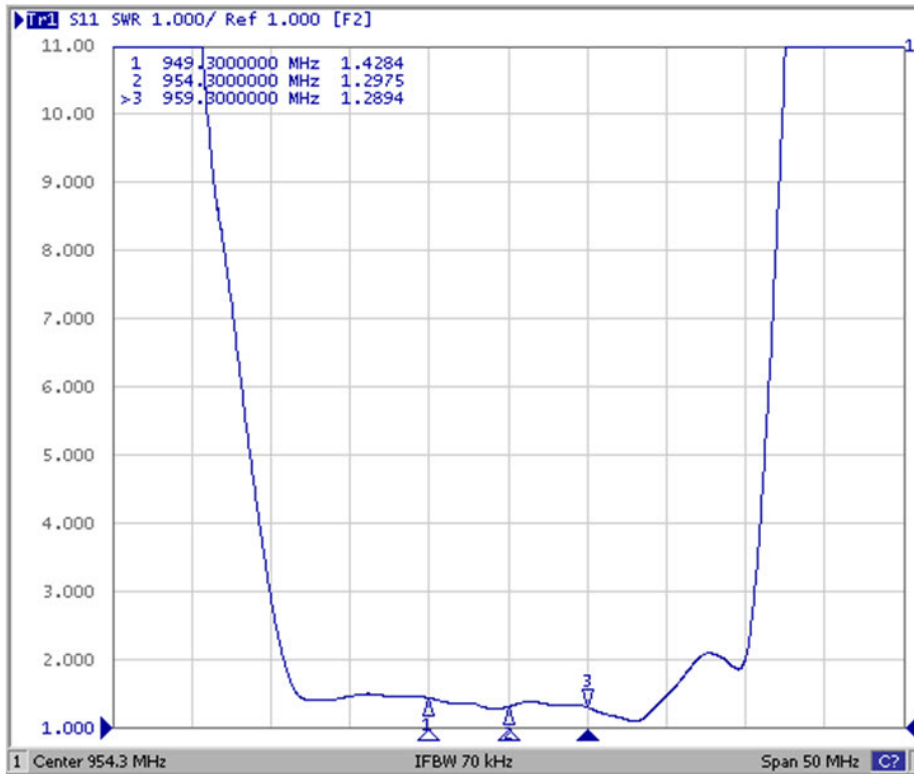
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTICS:

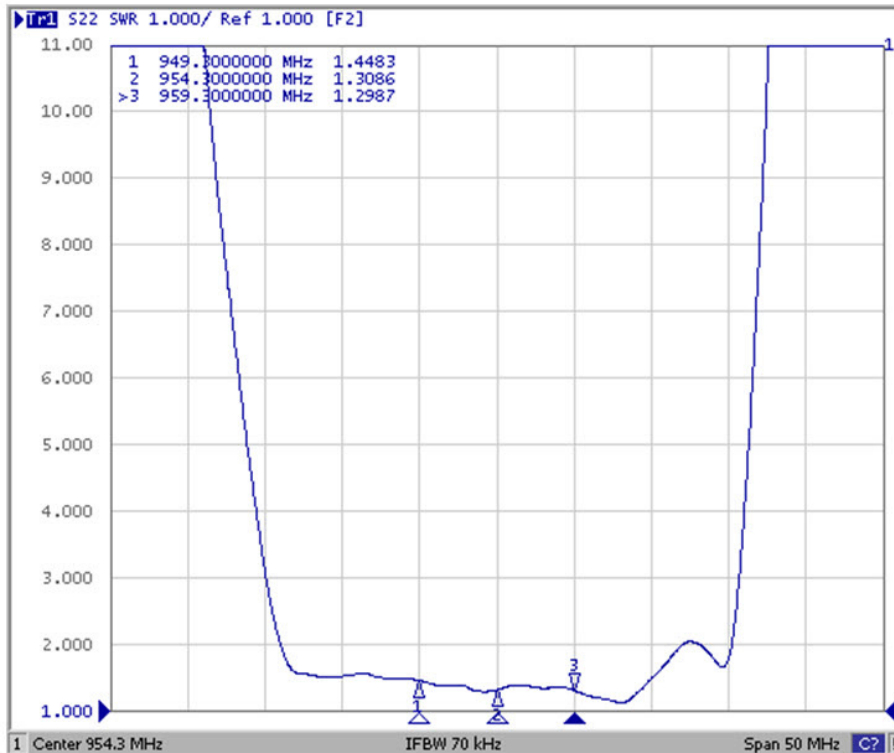


REFLECTION FUNCTIONS:

S11



S22



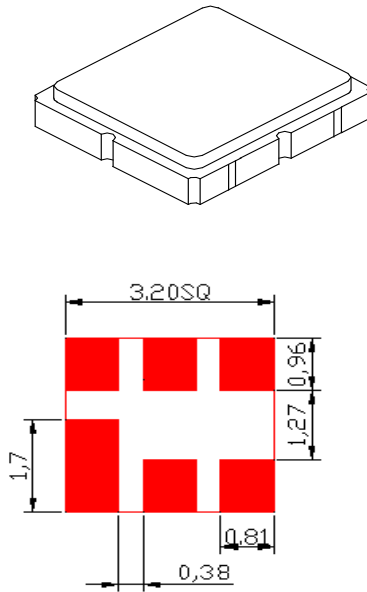
SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case

3.0 X 3.0 mm Nominal Footprint

Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A		3.0			0.118	
B		3.0			0.118	
C		1.3			0.051	
D		0.9			0.035	
E		2.54			0.100	
F		1.6			0.063	
G		0.85			0.033	
H		1.5			0.059	
I		0.6			0.024	
J		1.3			0.051	



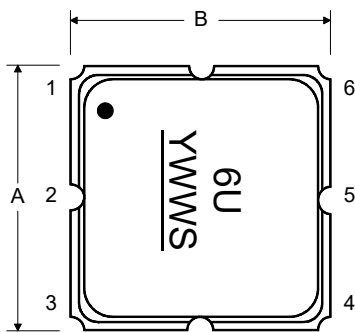
PCB FOOTPRINT

Electrical Connections

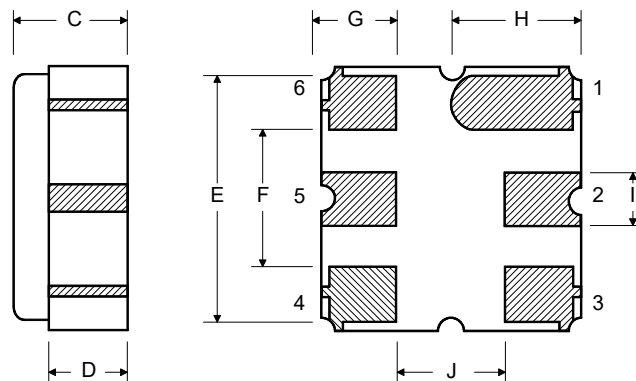
Connection		Terminals
Port 1	Single Ended Input	2
Port 2	Single Ended Output	5
	Ground	All others

Dot indicates Pin 1

TOP VIEW

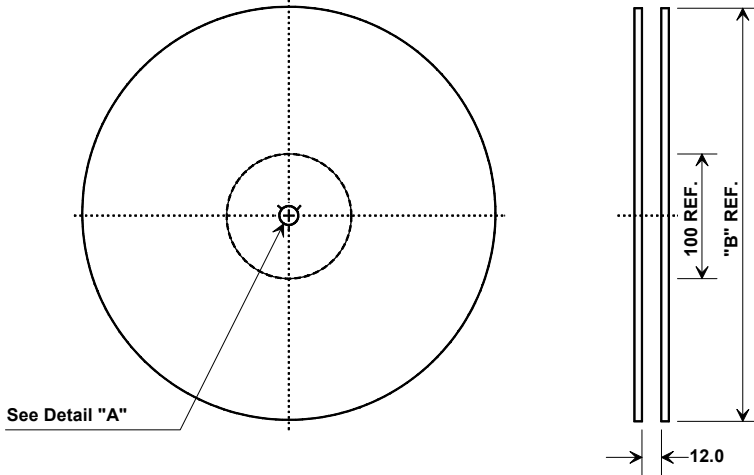


BOTTOM VIEW

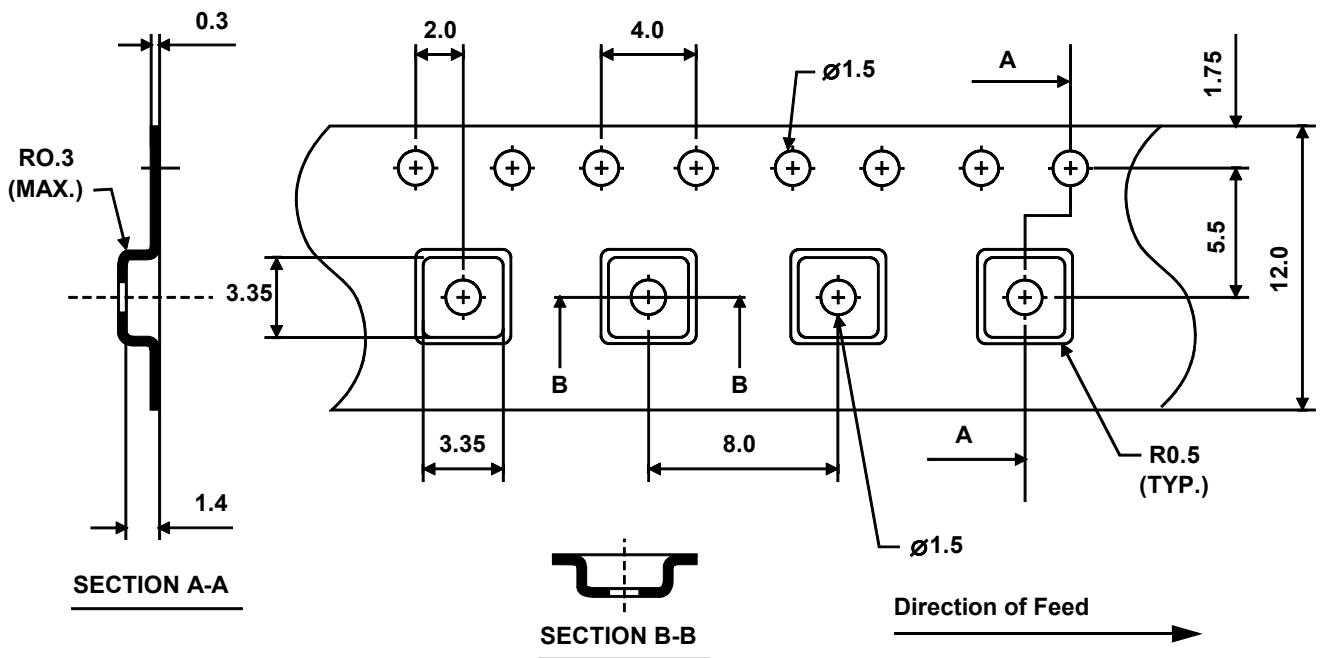
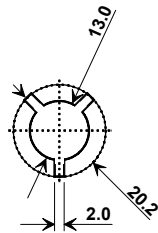


Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481



"B "		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
4. Time: 5 times maximum.

