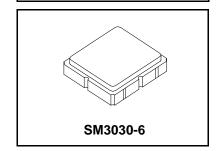


AEC-Q200

This component was always RoHS compliant from the first date of manufacture.

SF2002B-2

942.5 MHz **SAW Filter**



RF Filter for EGSM

- High Attenuation Design
- No Matching Circuit Required
- 3.0 x 3.0 x 1.3 mm Package
- Complies with directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

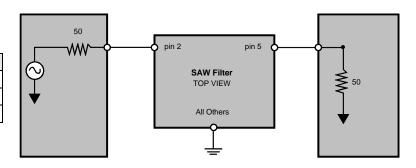
Rating	Value	Units
Maximum Input Power	+15	dBm
DC voltage between Terminals	-3 ~ +3	VDC
Operating Temperature	-30 to +80	°C

Electrical Characteristics

Characteristic			Notes	Min	Тур	Max	Units
Nominal Operating Frequency		f _C			942.5		MHz
Passband	Insertion Loss (925~960 MHz)	IL			2.8	4.0	dB
	Amplitude Ripple (925~960 MHz)				1.1	2.3	dB
Attenuation (Reference	level from 0 dB)						
	10~800 MHZ			50	63		dB
	800~880 MHZ			40	48		dB
	880~905 MHZ			35	43		dB
	980~982 MHZ			20	27		dB
	982~1005 MHZ			23	28		dB
	1005~1025 MHZ			29	33		dB
	1025~1760 MHZ			40	50		dB
	1760~2300 MHZ			30	41		dB
	2300~3000 MHZ			20	28		dB
Input Z _{IN}					50		Ω
Output Z _{OUT}					50		Ω
Case Style	SM3030-6 3 x 3 mm Nominal Footprint			ootprint	1		
Lid Symbolization (Y=ye	ear, WW=week, S=Shift)	464, YWWS					

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All others

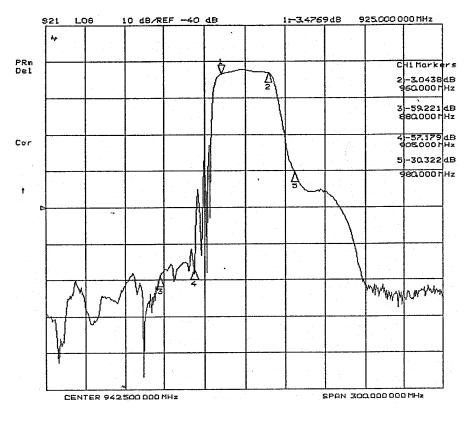


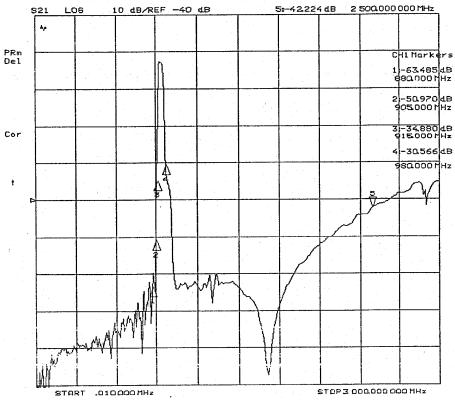
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

- The design, manufacturing process, and specifications of this device are subject to change.
- US or International patents may apply.

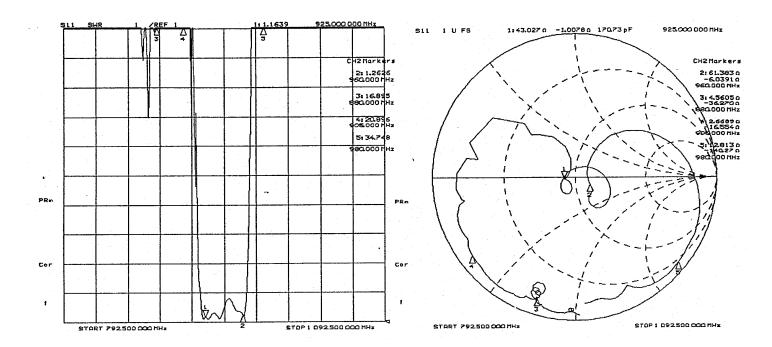
FREQUENCY CHRACTERISTICS:

1. wideband response:

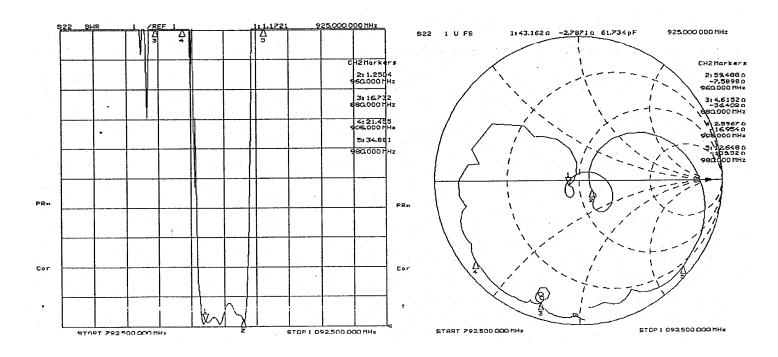




S11 Return Loss & VSWR:

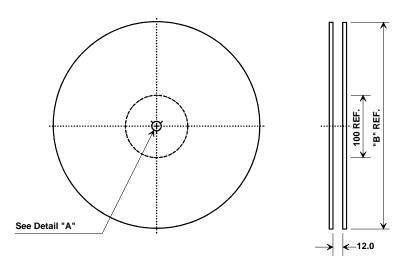


S22 Return Loss & VSWR:

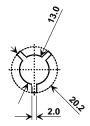


Tape and Reel Specifications

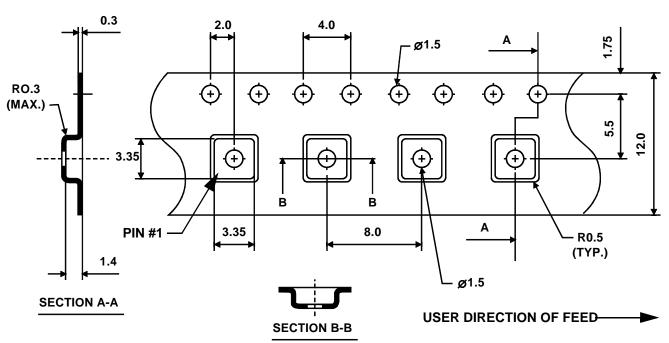
Tape and Reel Standard per ANSI/EIA481



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

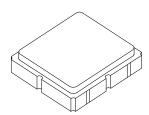


COMPONENT ORIENTATION



SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

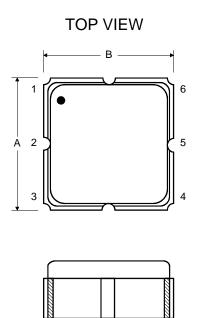


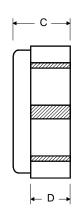
Case Dimensions

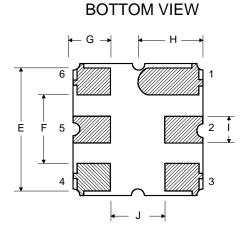
Dimension	mm			Inches			
Difficusion	Min	Nom	Max	Min	Nom	Max	
Α		3.0			0.118		
В		3.0			0.118		
С		1.3			0.051		
D		0.9			0.035		
E		2.54			0.100		
F		1.6			0.063		
G		0.85			0.033		
Н		1.5			0.059		
Ī		0.6			0.024		
J		1.3			0.051		

Electrical Connections

	Connection	Terminals			
Port 1	Single Ended Input	2			
Port 2	Single Ended Output	5			
	Ground	All others			
Single Ended Operation Only					
Dot indicates Pin 1					







Recommended Reflow Profile

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

