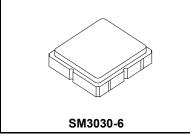


RFM products are now Murata products.

SF1192B

1842.5 MHz **SAW Filter**



· RF Filter for Mobile Communication Applications

- · 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	+10	dBm	
DC voltage between Terminals	0	VDC	
Case Temperature	-40 to +85	°C	
Suitable for lead-free soldering - Max Soldering Temperature	260°C for 30 s		

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Operating Fr	requency	f _C			1842.5		MHz
Passband	Insertion Loss across Fc+/ -37.5 MHz	IL			2.2	3.8	dB
Amplitude Ripple p-p across Fc+/ -37.5 MHz					1.3	2.3	dB
Attenuation	1542.5 ~ 1600 MHZ			20.0	24.5		dB
	1600 ~ 1710 MHZ			22.0	25.0		dB
	1710 ~ 1785 MHZ			10.0	23.5		dB
	1920 ~ 2142.5 MHZ			25.0	28.0		dB
VSWR across Fc +/ -3	37.5 MHz				1.9	2.6	
Source impedance		Z _S			50		Ω
Load impedance		Z_{L}			50		Ω
Operating Temperatur	re	T _A		-30		+85	°C

Case Style	SM3030-6 3 x 3 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=Shift)	454 YWWD

Electrical Connections

Connection	Terminals	
Input	2	
Output	5	
Ground	All others	

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. Notes:

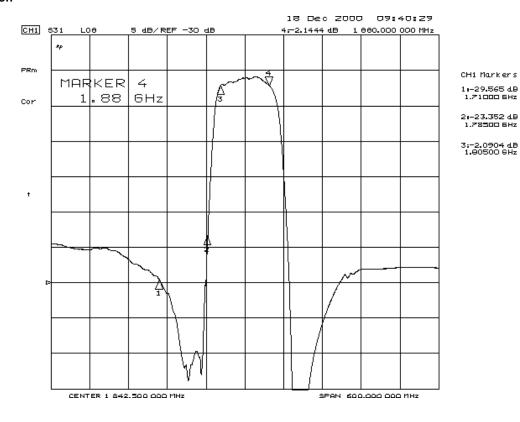
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network ana-
- lyzer.
 Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

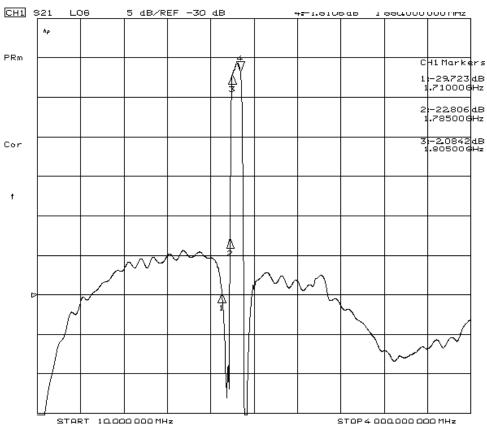
 The design, manufacturing process, and specifications of this filter are

- subject to change. Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
 US and international patents may apply.
 Murata, stylized Murata logo, and Murata N.A., Inc. are registered
- trademarks of Murata Manufacturing Co., Ltd

Frequency Characteristics:

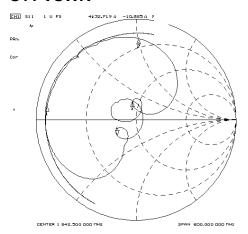
Transfer Function

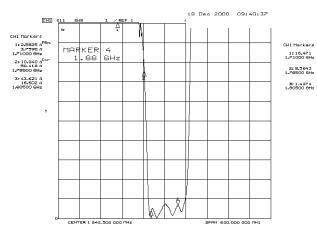




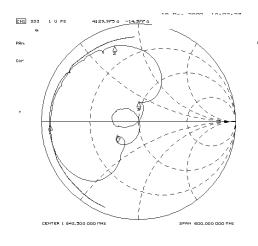
Reflections Functions:

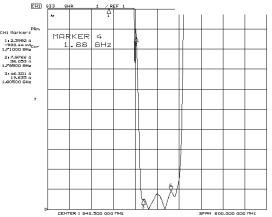
S11 VSWR





S22 VSWR

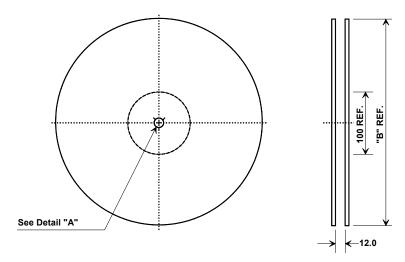




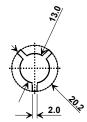
1: 21.038 1.71000 GHz 2: 9.6247 1.79500 GHz

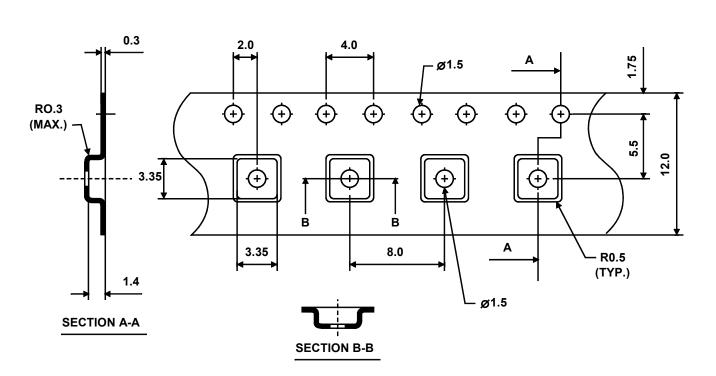
3: 1.5045 1.60500 6Hz

Tape and Reel Specifications



	"B " Nominal Size		Per Reel
Inches	millimeters	Min	Max
7	178	TBD	TBD
13	330	TBD	TBD





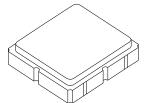
SM3030-6 Case

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



Case Dimensions





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			

