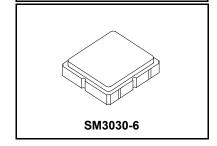


RFM products are now Murata products.

SF1183B

881.5 MHz SAW Filter



OE4400D

RF Filter for Mobile Communication Applications Application Logs

- Low Insertion Loss
- 3.0 x 3.0 x 1.3 mm Surface-Mount Case
- · No Matching Circuit Required

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	-5 to +5	VDC
Storage Temperature Range -40 to +100		°C
Max Soldering Profile	265°C for 10 s	

Characteristic		Sym	Notes	Min	Тур	Max	Units	
Nominal Operating Frequer	псу	f _C	1		881.5		MHz	
Passband	Insertion Loss across 869-894	IL			2.0	3.0	dB	
	Amplitude Ripple p-p across 869-894				1.0	2.0	_ ub	
Attenuation	10 -849 MHz	Hz 1, 2, 3 20 23.0						
	914 -939 MHz			20	30.0		dB	
	939 -1049 MHz			23.0	25.0		ub	
	1049 -2000 MHz			20	24.5			
VSWR across 869-894					1.7	2.5		
Source impedance		Z _S	7		50		Ω	
Load impedance		Z_{L}	7		50		Ω	
Operating Temperature		T _A	1	-30		+85	°C	

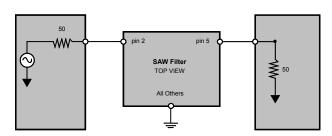
Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms		
Case Style	SM3030-6 3 x 3 mm Nominal Footprint		
Lid Symbolization (YY=year, WW=week, S=shift)	449 YWWS		

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All others

Notes:

- 1. 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 analyzer.
- 2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."

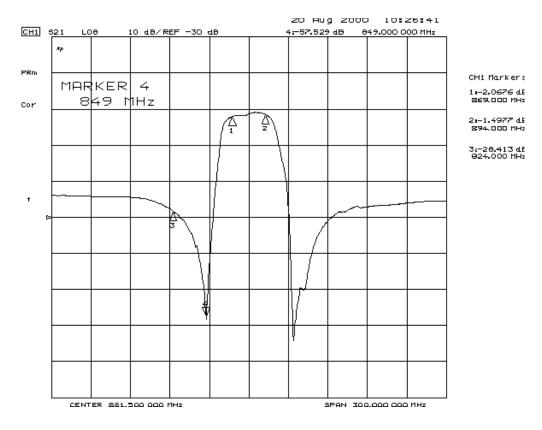


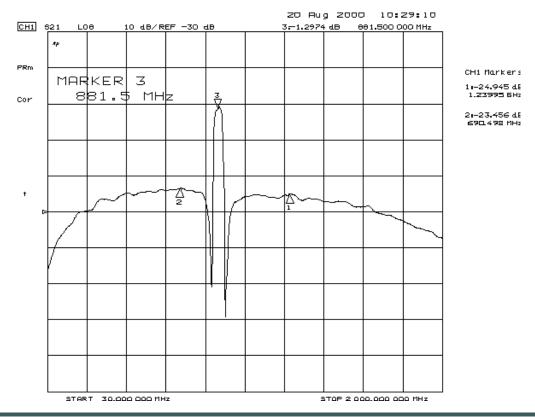
- The design, manufacturing process, and specifications of this filter are subject to change.
- Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- 7. US and international patents may apply.
- 8. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.
- 9. Electrostatic Sensitive Device. Observe precautions for handling.



Frequency Characteristics

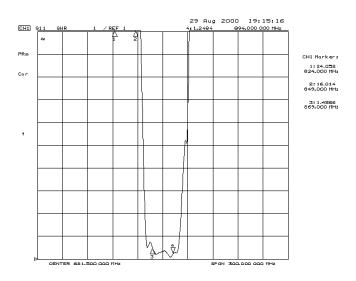
wideband response:

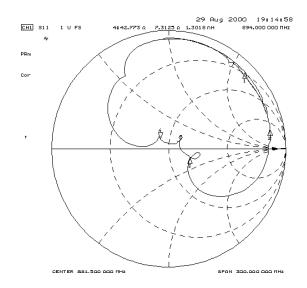




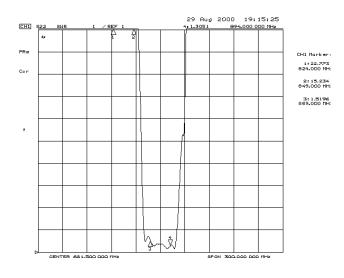
Reflections Functions:

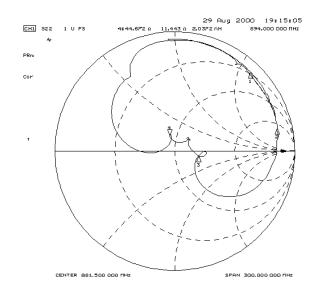
S11 VSWR





S22 VSWR





CH1 Markers

1:13.977 /
113.25 /
624.000 MHz

2:195.45 /
329.39 /
649.000 MHz

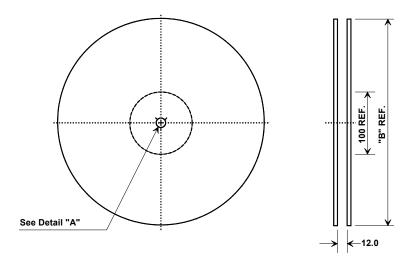
3:75.020 /
-6.3125 /
699.000 MHz

CH1 Markers

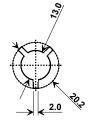
1: 14.016 (119.18 (824.000 MHz

3: 71.371 d -10.555 d 969.000 MHz

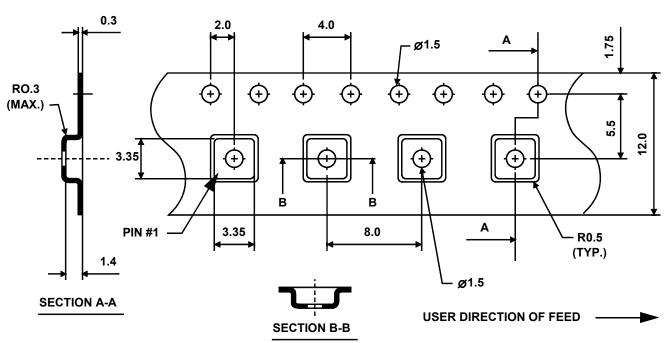
Tape and Reel Specifications



"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

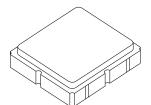


COMPONENT ORIENTATION



SM3030-6 Case

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



Case Dimensi 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	
Е		2.54			0.100	
F		1.6			0.063	
G		0.85			0.033	
Н		1.5			0.059	•
1		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					

