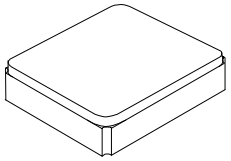
Preliminary

SF1183G

881.5 MHz SAW Filter

- ***RF Filter for Cellular Application***
- ***2.5 x 2.0 x 1.05 mm Surface-Mount Case***
- ***No Matching Circuit Required***
- ***Complies with Directive 2002/95/EC (RoHS)***



SM2520-4

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	15	dB
DC voltage	-5 ~ +5	V
Storage Temperature	-40 to +85	°C
Max Soldering Profile	265°C for 10 s	

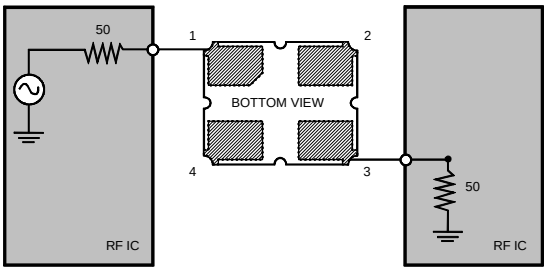
Electrical Characteristics

Characteristic		Sym	Notes	Min	Typ	Max	Units
Center Frequency		f_C			881.5		MHz
Insertion Loss	869 ~ 894 MHz	IL			2.1	2.8	dB
Amplitude Ripple (p-p)	869 ~ 894 MHz				0.6	1.2	
Return loss	869 ~ 894 MHz			9.0	12.0		
Attenuation (Reference level from 0 dB)	DC ~ 840 MHz			45	50		dB
	840 ~ 851 MHz			38	45		
	914 ~ 924 MHz			20	26		
	924 ~ 950 MHz			34	39		
	950 ~ 997 MHz			35	48		
	997 ~ 2200 MHz			40	48		
	2200 ~ 3000 MHz			27	33		
Tx band suppression	824 ~ 849 MHz			38	45		
Source impedance		Z_S			50		Ω
Load impedance		Z_L			50		Ω
Operating Temperature		T_A		-25		+80	°C

Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Lid Symbolization (2K=SF1183G Y=year, W=week)	2K, YW

Electrical Connections

Connection	Terminals
Input	1
Output	3
Ground	All others



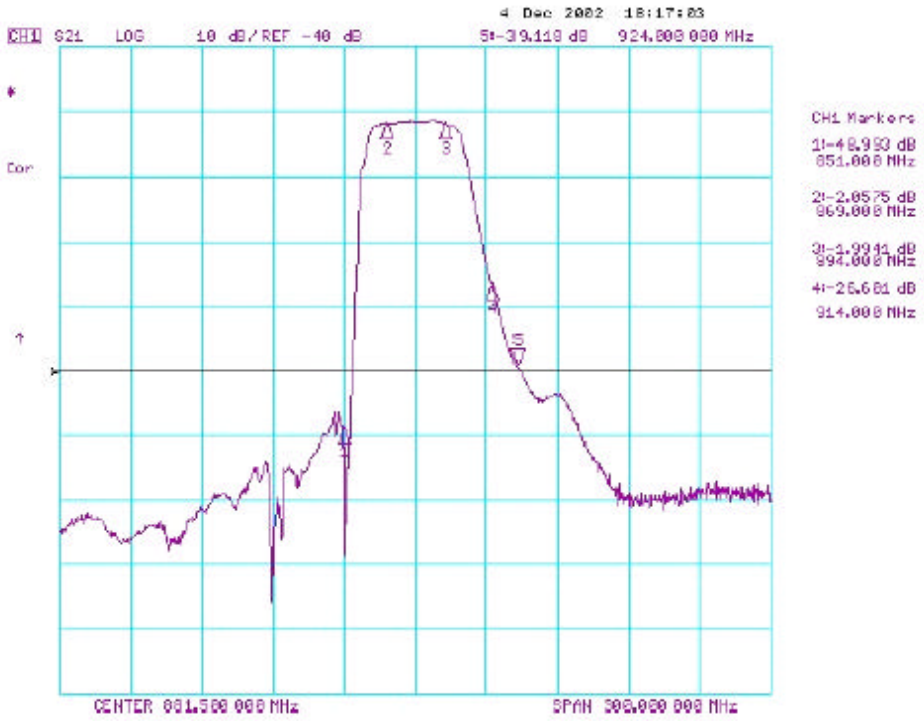
Notes:

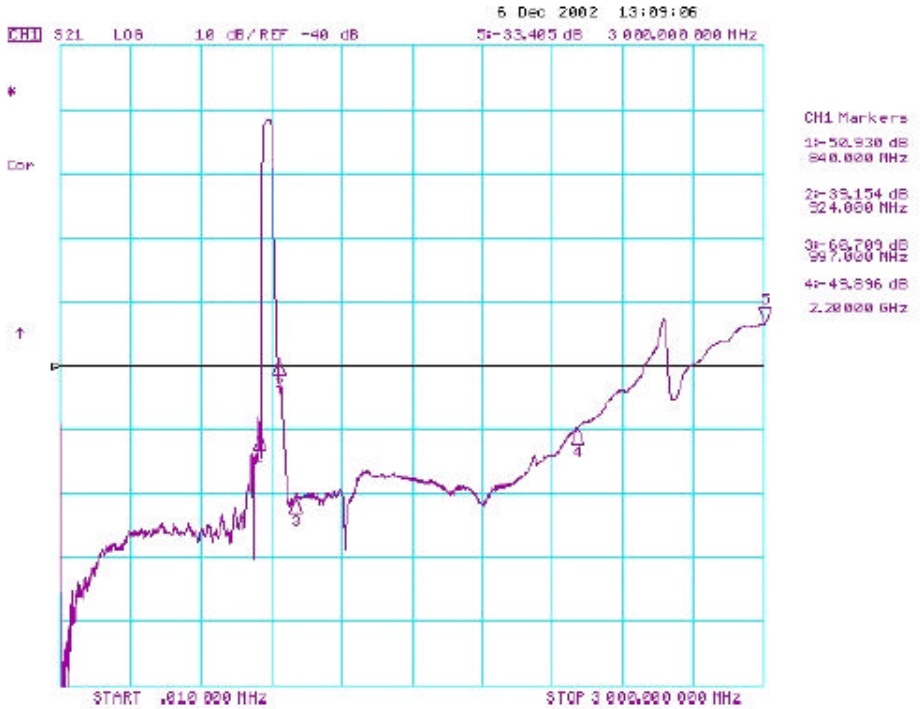
1. US and international patents may apply.
2. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
3. ©Copyright 1999, RF Monolithics Inc.
4. Electrostatic Sensitive Device. Observe precautions for handlir

©1999 by RF Monolithics, Inc. The stylized RFM logo are registered trademarks of RF Monolithics, Inc.

F. Frequency Characteristics :

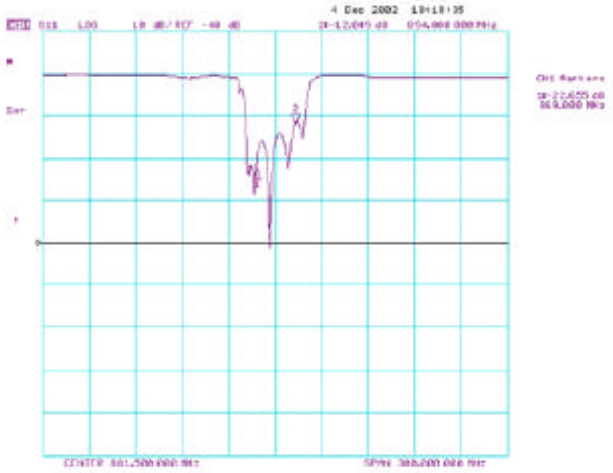
Transfer function

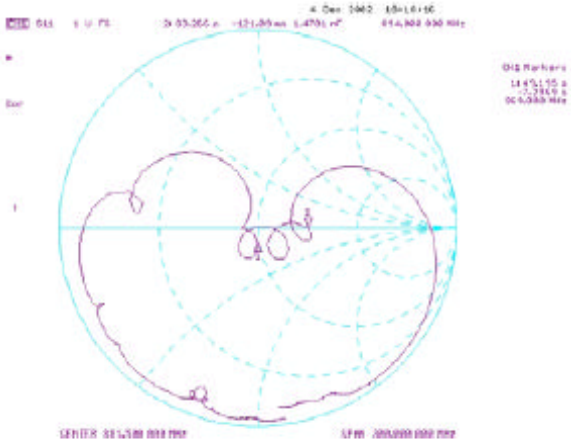




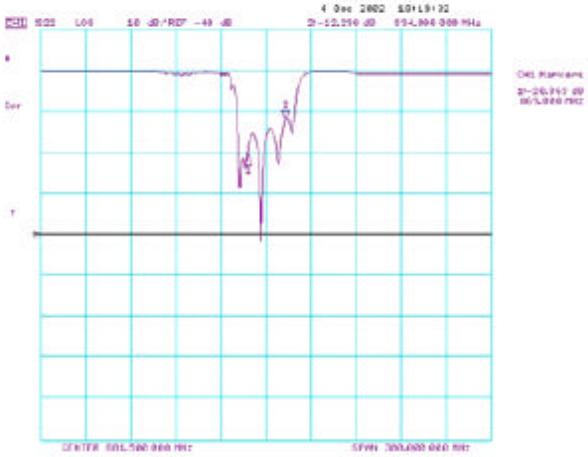
©1999 by RF Monolithics, Inc. The stylized RFM logo are registered trademarks of RF Monolithics, Inc.

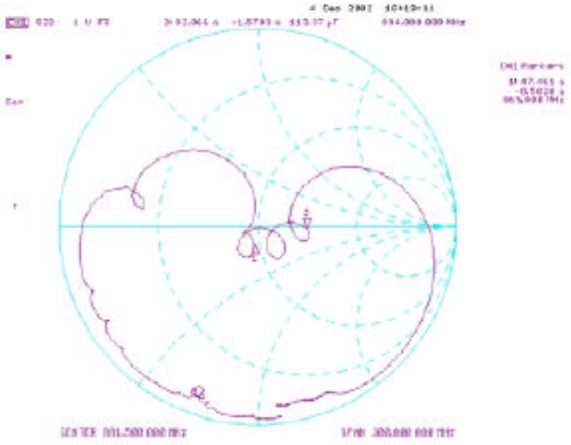
S11:





S22:

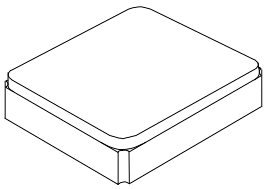




©1999 by RF Monolithics, Inc. The stylized RFM logo are registered trademarks of RF Monolithics, Inc.

SM2520-4 Case

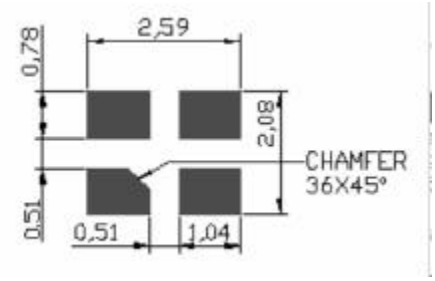
4-Terminal Ceramic Surface-Mount Case
2.5 X 2.0 mm Nominal Footprint



Case Dimensions

Dimension	mm		
		Nom	
A		2.0	
B		2.5	
C		1.0	
E		0.95	
F		0.70	
G		0.60	

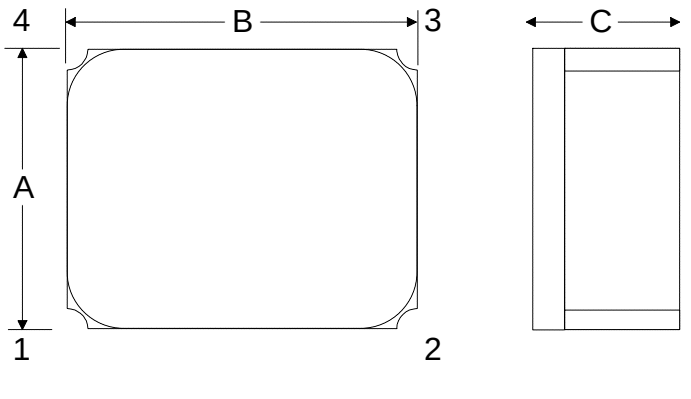
PCB Foot Print



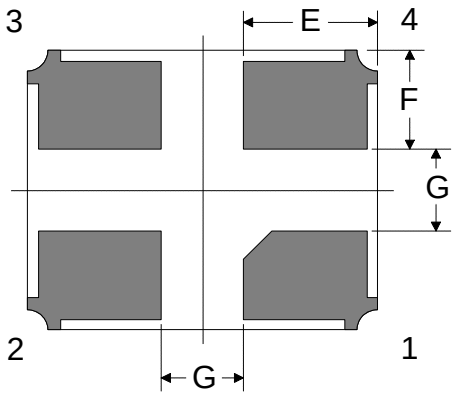
Electrical Connections

Connection		Terminals
Port 1	Single Ended Input	1
Port 2	Single Ended Output	3
	Ground	All others
Single Ended Operation Only		

TOP VIEW

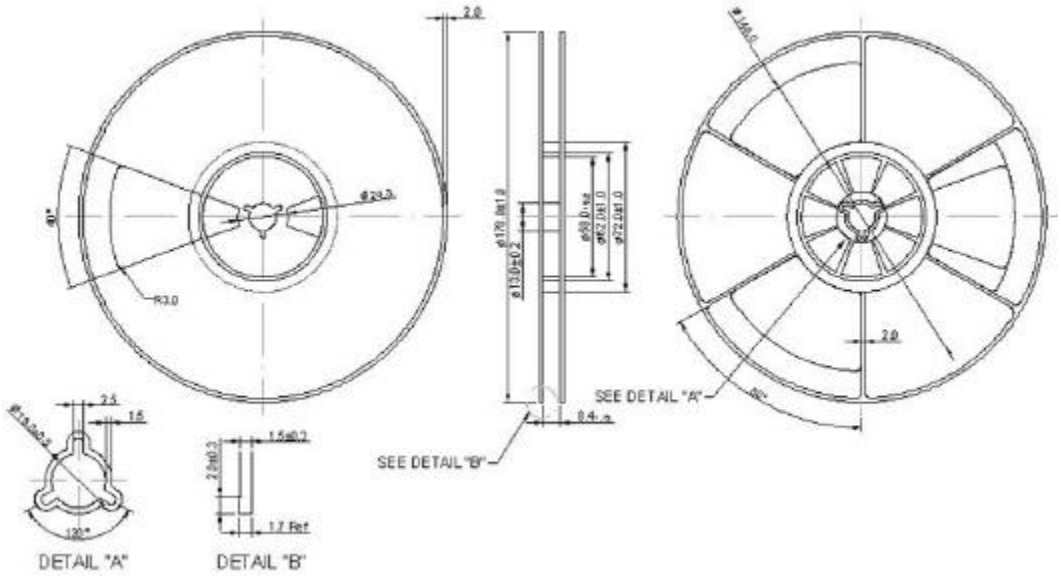


BOTTOM VIEW

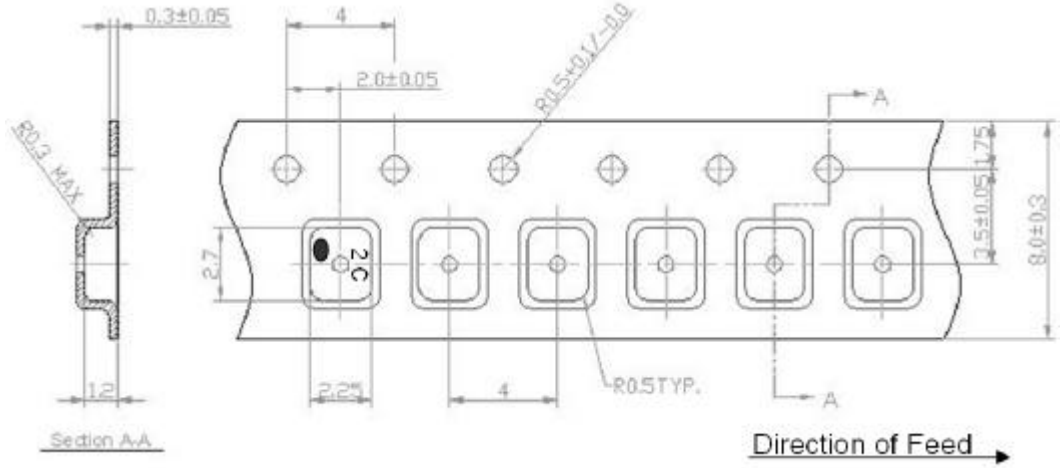


©1999 by RF Monolithics, Inc. The stylized RFM logo are registered trademarks of RF Monolithics, Inc.

Reel Dimension



Tape Dimension



©1999 by RF Monolithics, Inc. The stylized RFM logo are registered trademarks of RF Monolithics, Inc.