



March 11, 2003

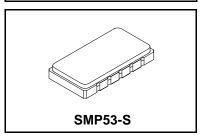
- Single Ended Input / Differential Output
- Low Insertion Loss
- Hermetic 13.3 x 6.5 mm Surface-mount Case

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Max. Soldering Profile	265°C for 10 s	

SF2005B-1

167.0 MHz SAW Filter



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Frequency		f _C	1		167		MHz
Passband bandwidth	2dB	BW		0.150			MHz
Insertion Loss	167 ±.075 MHz	IL	4.00			4.0	
Rejection	30 to 147 MHz		1, 2,3	30			
	147 to 166.4 MHz			10			dB
	167.6 to 187 MHz			10			ub
	187 to 1000 MHz			30			
Amplitude ripple (p-p)	fc ±.075 MHz	Δ_{a}				0.5	
Operating Temperature			1	-5	+25	+85	°C
50 Ohm single ended match Input Return Loss				15			dB
50 Ohm differential Output Return Loss				10			dB
Group Delay Deviation F _C ±.075 MHz		GDD				300	nsec

Impedance Matching	External L-C		
Case Style	SMP-53-S 13.3 x 6.5 mm Nominal Footprint		
Lid Symbolization (YY = year, WW = week, S=shift)	RFM SF2005B-1 YYWWS		

Electrical Connections

Connection	Terminals
Port 1 Hot	10
Port 1 Gnd Return	1
Port 2 Hot	5
Port 2 Gnd Return	6
Case Ground	All Others
Single Ended Operation	Return is ground
Differential Operation	Return is hot

SAW Filter TOP VIEW All Others pin 6 TBD TBD TBD TBD TBD 100 ohm

fig 1 values TBD

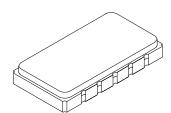
Notes:

- 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.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- Rejection is measured as attenuation from fc IL. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- Part to part absolute delay measurement records the absolute delay mean across 2 dB passband.
- "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.
- 8. US and international patents may apply.
- Electrostatic Sensitive Device. Óbserve precautions for handling.



SMP-53-S Case

10-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint

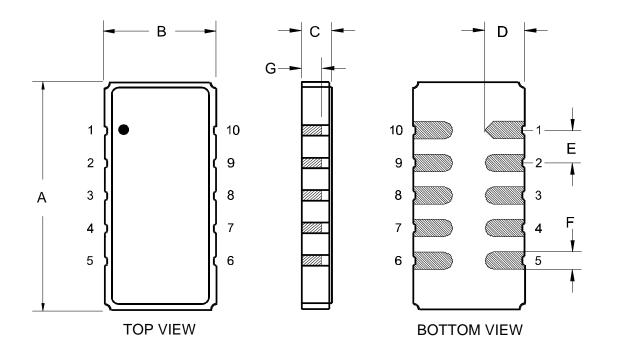


Case Dimensions

Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α		13.3			.524	
В		6.5			.256	
С			2.00			.078
D		2.3			.091	
E		1.91			.075	
F		1.02			.040	
G		1.0			0.039	

Electrical Connections

Connection	Terminals	
Port 1 Hot	10	
Port 1 Gnd Return	1	
Port 2 Hot	5	
Port 2 Gnd Return	6	
Case Ground	All others	
Single Ended Operation	Return is ground	
Differential Operation	Return is hot	



Phone: (972) 233-2903 RFM Europe

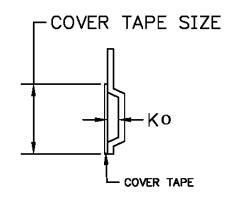
Phone: 44 1963 251383 ©2001 by RF Monolithics, Inc. The stylized RFM logo are registered trad-

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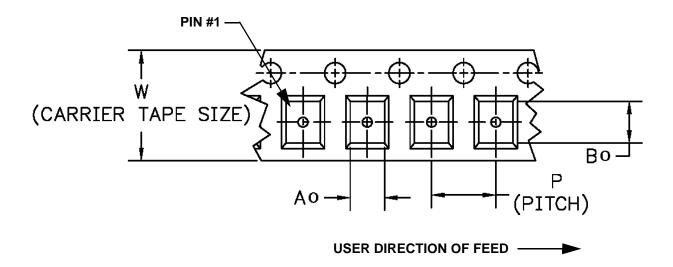
24mm Carrier Tape

Dimensions

Carrier Tape Dimer	Cover Tape	
Ao	.274 ± .004 (7.0)	21.3mm
Во	.542 ± .004 (13.76)	
Ko	.088 ± .004 (2.2)	
Р	12mm	
W	24mm	
Tape Length	86M	
Pockets/M	83/M	



COMPONENT ORIENTATION



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)