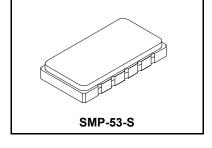




RFM products are now Murata products.

SF2085A

96.00 MHz **SAW Filter**



· Low Insertion Loss

- 13.3 X 6.5 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+13	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-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 Center Frequency	f _C	1		96.000		MHz
Insertion Loss		1		17	19	dB
Passband Ripple CF ±15 MHz		1			2	dB p-p
Passband 1dB		1	35			MHz
Passband 3dB		1		36		MHz
Group Delay Fc±15 MHz within adjacent 5 MHz windows		1			50	nsec
Amplitude Ripple Fc±15 MHz within adjacent 5 MHz windows		1			1.5	dB
VSWR at Fc		1			1.8	
Group Delay Absolute Group Delay Variation; CF ±15 MHz		1		180		nsec
Rejection 40 dB		1, 2			50	MHz
Temperature Operating			-40		85	°C
Storage			-40		85	7 ~
Matching to 50Ω Balanced or Single Ended Impedance				External L-C		•
Case Style			SMP-53-S 13	.3 x 6.5 mm No	minal Footprir	nt
Lid Symbolization (YY=year, WW=week, S=shift)			RFN	// SF2085A YY\	WWS	

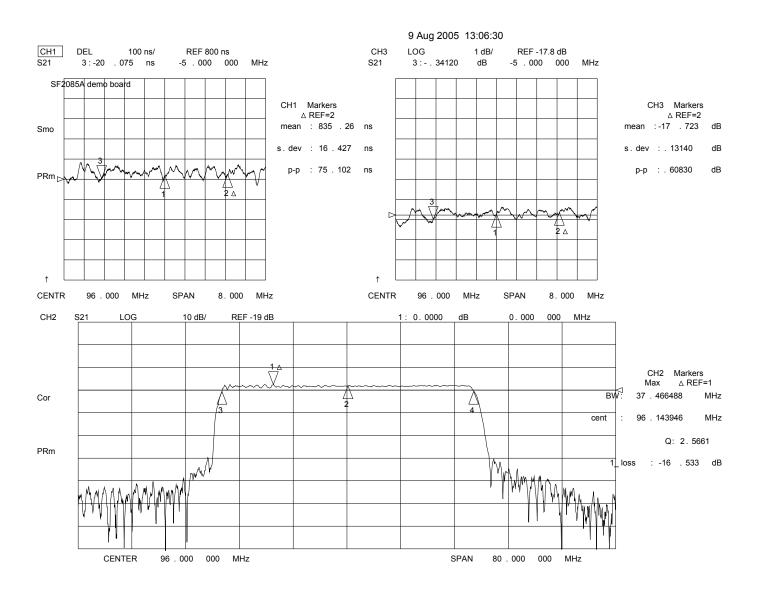
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

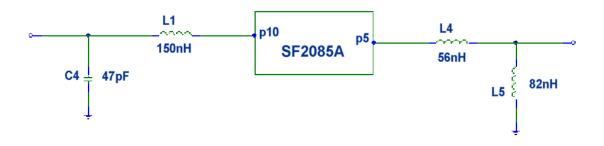
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.

 The design, manufacturing process, and specifications of this filter are subject to change.

 Tape and Reel Standard ANSI / EIA 481.

- 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.



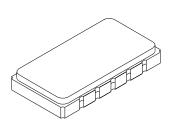


SMP-53-S Case

10-Terminal Ceramic Surface-Mount Case

13.3 x 6.5 mm Nominal Footprint

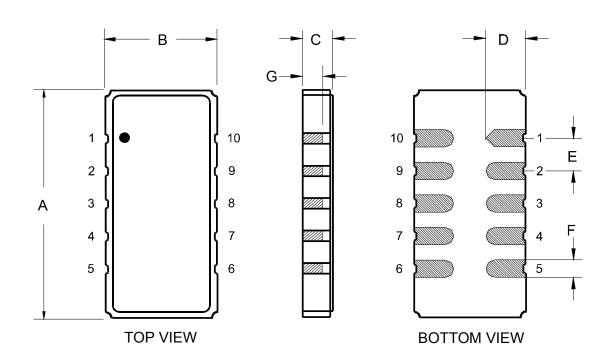
Case Dimensions



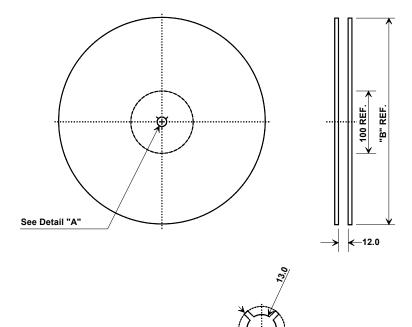
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α		13.3			.524	
В		6.5			.256	
С			2.00			.078
D		2.3			.091	
E		1.91			.075	
F		1.02			.040	
G		1.0			0.039	

Electrical Connections

Connection	Terminals
Input	10
Input Return	1
Output	5
Output Return	6
Ground	All others



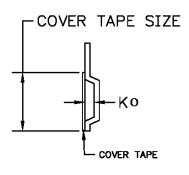
Tape and Reel Specifications



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

$\stackrel{/}{\longrightarrow} \underbrace{^{2.0}}$

COMPONENT ORIENTATION and DIMENSIONS



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

