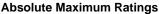


SF1141B-4

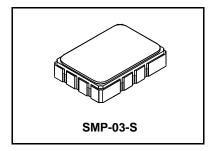
- Designed for SDARS IF Receiver
- Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- Differential Input and Output
- Complies with Directive 2002/95/EC (RoHS)



75.00 MHz **SAW Filter**



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	265°C for 10 s		



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1	75.000			MHz
Passband	Insertion Loss at fc	IL	1 '		12.5	16.0	dB
	1dB Passband	BW ₁		±6.35	±7.43		MHz
Fast Amplitude Ripple over fc ±6.35 MHz			1, 2			1.5	dB _{P-P}
Group Delay Variation over fc ±6.35 MHz			1		75	200	ns _{P-P}
Rejection	fc-100 to fc-18.8 MHz			40	45		dB
	fc-18.8 to fc-10.95 MHz		1 2 2	37	45		
	fc+10.95 to fc+18.8 MHz		1, 2, 3	30	36		
	fc+18.8 to fc+100 MHz			40	45		
Operating Temperature Range		T _A	1	-40		+85	°C
Differential Input and Output Impedance				25	0 ohms	•	
Case Style		6 SMP-03-S 7 x 5 mm Nominal Footprii			tprint		
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			1 0	RFM SF1141B-4 YYWWS			

Electrical Connections

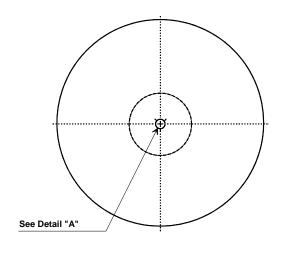
Connection	Port 1 Hot	Port 1 Ground Return or Hot	Port 2 Hot	Port 2 Ground Return or Hot	Case Ground
Terminals	10	1	5	6	All Others

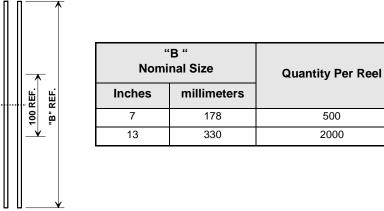
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. Notes:

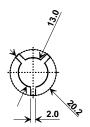
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal 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. ©Copyright 1999, RF Monolithics Inc.

Tape and Reel Specifications

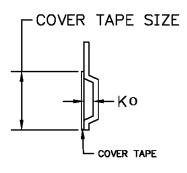




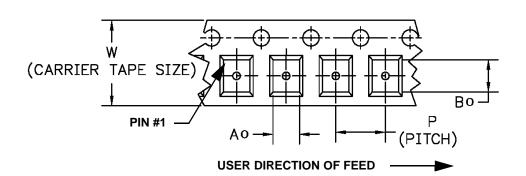


COMPONENT ORIENTATION and DIMENSIONS

←16.0

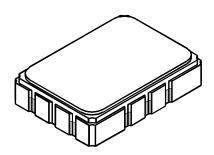


Carrier Tape Dimens	Tolerance	
Ao	5.5 mm	± 0.1mm
Во	7.5 mm	± 0.1mm
Ко	2.0 mm	± 0.1mm
Pitch	8.0 mm	± 0.1mm
W	16.0 mm	± 0.2mm



SMP-03-S Case 💫

12-Terminal Ceramic Surface-Mount Case 5 x 7 mm Nominal Footprint



Case Dimensions							
Dimension		mm			Inches		
	Min	Nom	Max	Min	Nom	Max	
Α	6.80	7.00	7.20	0.268	0.276	0.283	
В	4.80	5.00	5.20	0.189	0.197	0.205	
С		1.65	2.00		0.065	0.079	
D		0.80					
E	2.41	2.54	2.67	0.095	0.100	0.105	
Н	0.87	1.1	1.13	0.034	0.039	0.044	
J		2.54					
K	2.87	3.00	3.13	0.113	0.118	0.123	
Р	1.14	1.27	1.40	0.045	0.050	0.055	

Materials				
Solder Pad Termination	Au plating 30 - 60 μinches (76.2-152 μm) over 80- 200 μinches (203-508 μm) Ni.			
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µinches Thick			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

