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SF1140B-2

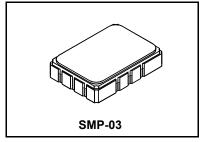
- · Designed for SDARS IF Receiver
- Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- · Differential Input and Output
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Aboolato maximam ratingo					
Rating	Value	Units			
Maximum Incident Power in Passband	+10	dBm			
Max. DC voltage between any 2 terminals	30	VDC			
Storage Temperature Range	-40 to +105	°C			
Max Soldering Profile	265°C	265°C for 10 s			

75.00 MHz **SAW Filter**



Electrical Characteristics

Characteristic			Notes	Min	Тур	Max	Units	
Nominal Center Frequency		f_C	1	75.000			MHz	
Passband	Insertion Loss at fc	IL	i ' i		11.0	13.0	dB	
	1dB Passband	BW ₁		±2.1	±2.7		MHz	
Fast Amplitude Ripple over fc ±2.1 MHz			1, 2			1.0	dB _{P-P}	
	Group Delay Variation over fc ±2.1 MHz	GDV			40	200	ns _{P-P}	
Rejection	fc-15 to fc-7.15 and FC+15 to FC+65 MHz		1, 2, 3	40	43		dB	
	fc+7.15 to fc+15 MHz		1, 2, 3				— ub	
Operating Temper	rature Range	T _A 1 -40 +105 °C			°C			
Differential Input a	and Output Impedance	250 ohms		•				
Case Style		6 SMP-03 7 x 5 mm Nominal Footprint				orint		
Lid Symbolization (YY=year, WW=week, S=shift) See note 4				RFM SF1140B-2 YYWWS				

Electrical Connections

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



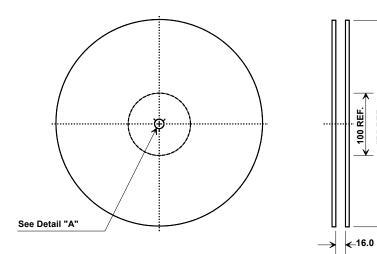
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

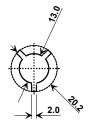
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal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

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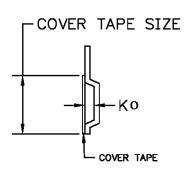
Tape and Reel Specifications



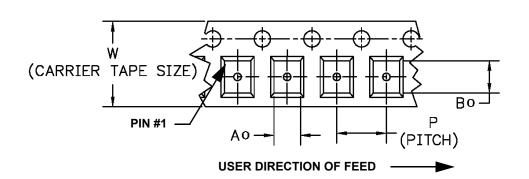
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



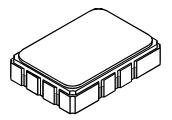
COMPONENT ORIENTATION and DIMENSIONS



Carrier Tape Dimensions				
Ao	5.5 mm			
Во	7.5 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	16.0 mm			



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



Case Dimensions

Dimension		mm			Inches	
Dilliension	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		0.60			0.024	
E		2.54			0.100	
Н		1.0			0.039	
J		5.00			0.197	
K		3.00			0.118	
Р		1.27			0.050	

Electrical Connections

	Connection	Terminals
Port 1	Input or Return	10
	Return or Input	1
Port 2	Output or Return	5
	Return or Output	6
	Ground	All others
Single	Ended Operation	Return is ground
Differe	offerential Operation Return is h	

