

Discontinued

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SF1143B-4

315.00 MHz

SAW Filter

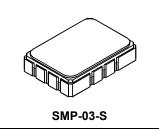
Designed for SDARS IF Receiver

- 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

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



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1	315.000		MHz	
Passband	Insertion Loss at fc	IL			15.1	17.0	dB
	1dB Passband	BW ₁		±6.35	±7.05		MHz
	Fast Amplitude Ripple over fc ±6.35 MHz		1, 2			1.5	dB _{P-P}
	Group Delay Variation over fc ±6.35 MHz	GDV			23	200	ns _{P-P}
Rejection	100 to fc-10.3 and fc+10.3 to fc+100 MHz		1, 2, 3	38	45		dB
Operating Temperature Range		T _A	1	-40		+85	°C
Differential Input and Output Impedance		250 ohms					
Case Style		6 SMP-03-S 7 x 5 mm Nominal Footpr				tprint	
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			. 0		RFM SF1143	3-4 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

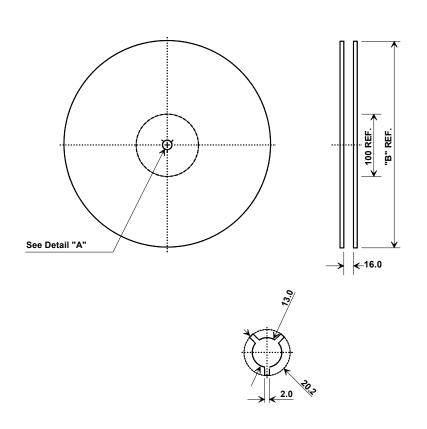
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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- 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 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." 3.
- 4.
- The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481. 5.
- 6.
- 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. 7.
- US and international patents may apply. 8.
- Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd. 9.

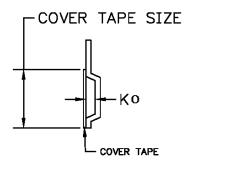
Tape and Reel Specifications

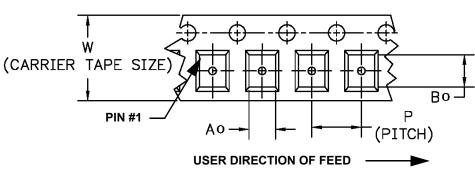


	B " nal Size	Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensio	Tolerance	
Ао	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



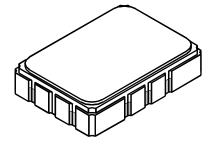


SMP-03-S Case

12-Terminal Ceramic Surface-Mount Case

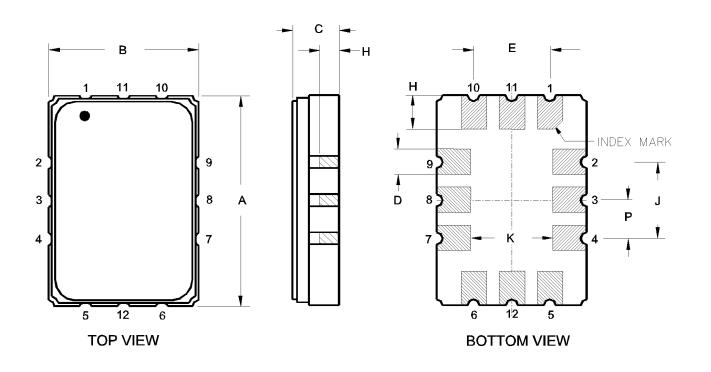
(Pb

5 x 7 mm Nominal Footprint



Case Dimen	sions					
Dimension		mm			Inches	
	Min	Nom	Max	Min	Nom	Мах
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				
к	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% Phos- phorus) 100-200 µinches Thick			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



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