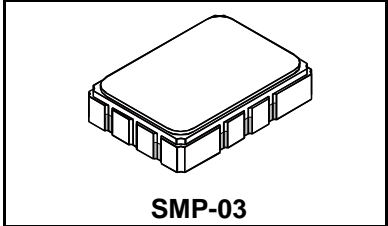




SF2024B

**467.751 MHz
SAW Filter**



- **Designed for SDARS Receiver IF Application**
- **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

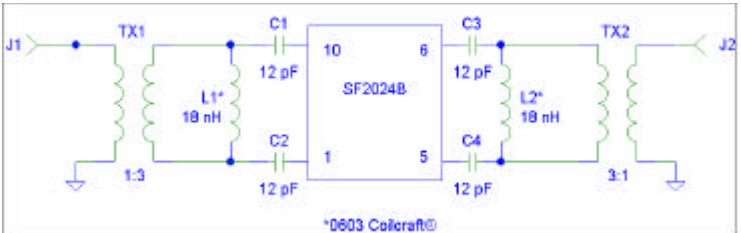
Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for lead-free soldering - Max Soldering Profile	260°C for 30 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units	
Nominal Center Frequency	f_C	1		467.751		MHz	
Passband Minimum Insertion Loss	IL	1		18	20	dB	
	1.5 dB Passband		$BW_{1.5}$		14.2		MHz
3 dB Passband	BW_3	1, 2		15		MHz	
Amplitude Ripple from fc-6.344 MHz to fc-4.2985 MHz (-20 to 85°C)						1	dB _{P-P}
Amplitude Ripple from fc-6.344 MHz to fc-4.2985 MHz (-40 to -20°C)						1.25	
Amplitude Ripple from fc-4.4865 MHz to fc-2.441 MHz						1	
Amplitude Ripple from fc-2.629 MHz to fc+0.069 MHz						1	
Amplitude Ripple from fc-0.069 MHz to fc+2.629 MHz						1	
Amplitude Ripple from fc+2.441 MHz to fc+4.4865 MHz						1	
Amplitude Ripple from fc+4.2985 MHz to fc+6.344 MHz (-40 to 50°C)						1	
Amplitude Ripple from fc+4.2985 MHz to fc+6.344 MHz (50 to 85°C)						1.25	
Group Delay Variation over fc-6.344 MHz to fc-2.441 MHz and from fc+6.344 MHz to fc+2.441 MHz	GDV1				60	80	
Group Delay Variation over fc±2.629 MHz	GDV2			60	120	ns _{P-P}	
Rejection fc-33 to fc-12 MHz and fc+12 to fc+33 MHz		1, 2, 3	32	40		dB	
	fc-12 to fc-10.5 MHz		24	40			
	fc+9 to fc+12 MHz		10	24			
Operating Temperature Range	T_A	1	-40		+85	°C	
Differential Input and Output Impedance			150 ohms				
Case Style		6	SMP-03 7 x 5 mm Nominal Footprint				
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			RFM SF2024B YYWWWS				

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



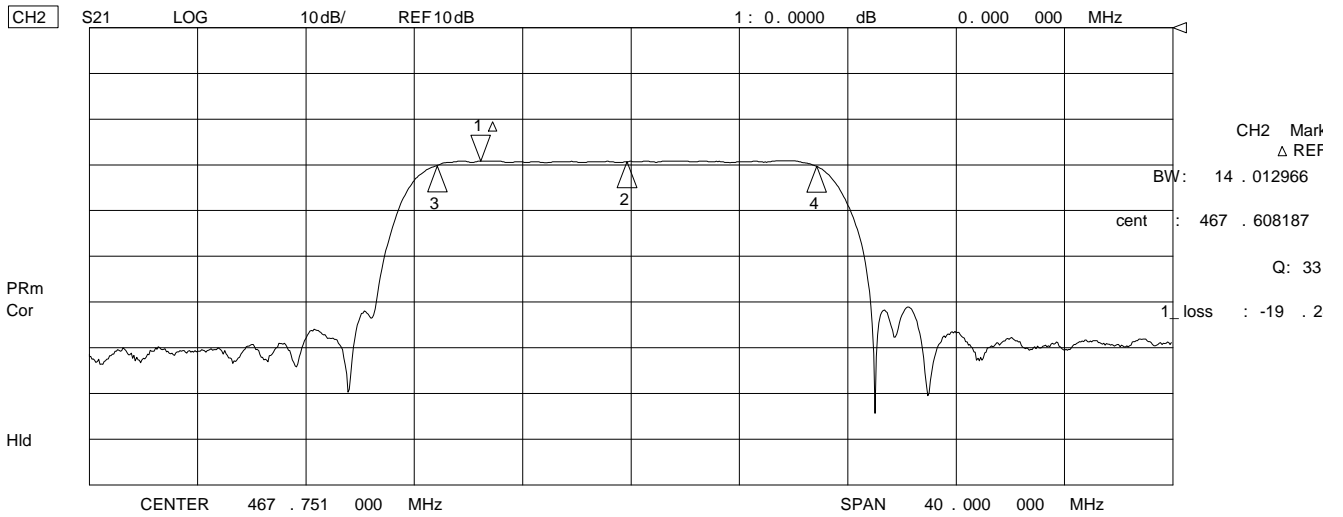
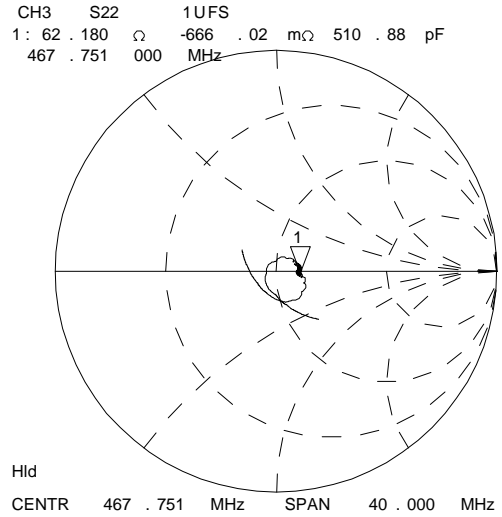
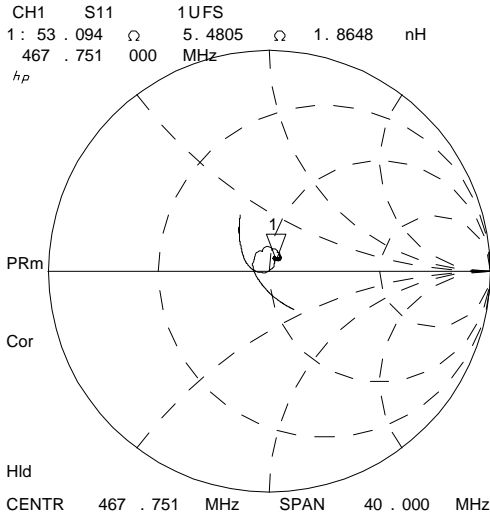
Notes:

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.
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, f_c .
3. 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.
4. "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."

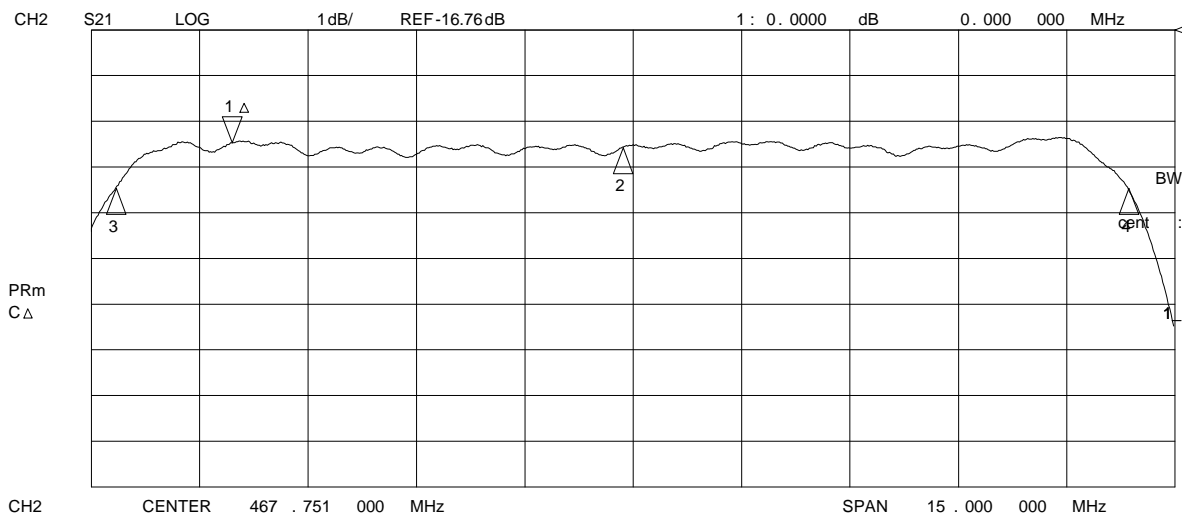
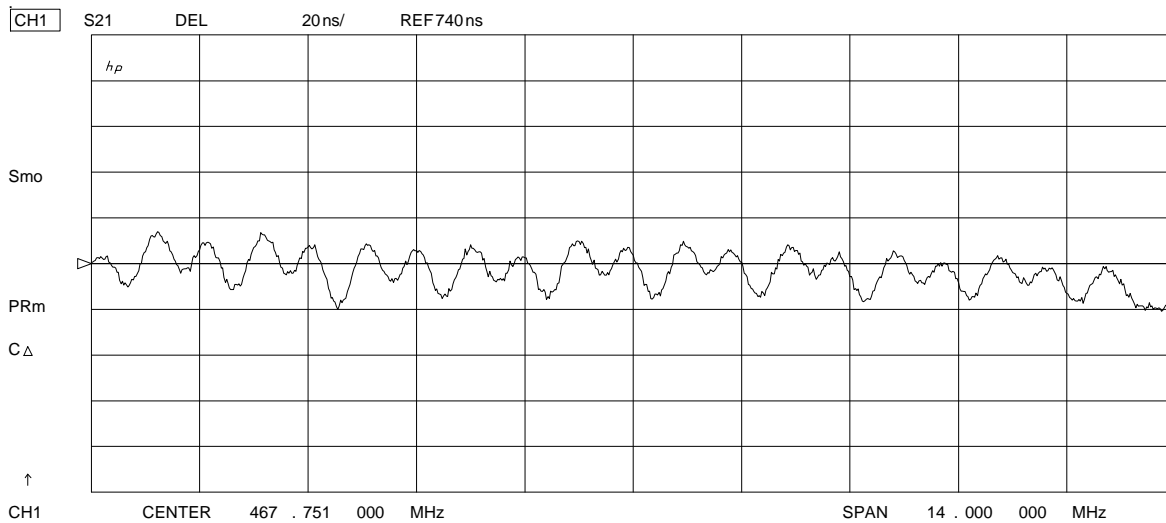
5. The design, manufacturing process, and specifications of this filter are subject to change.
6. Tape and Reel Standard Per ANSI / EIA 481.
7. Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
8. US and international patents may apply.
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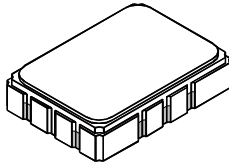


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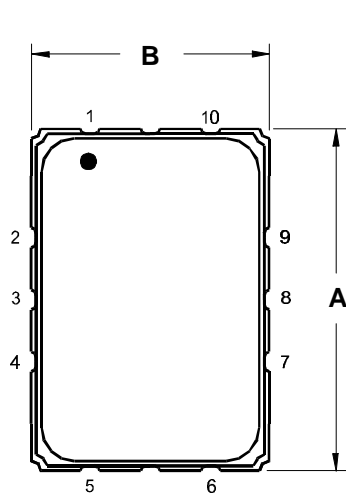
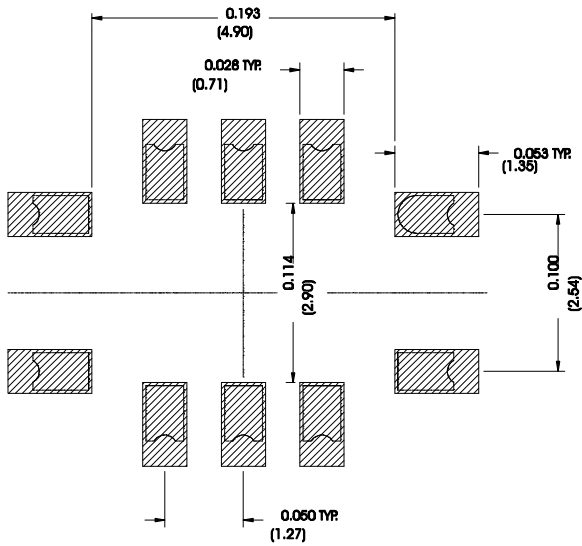


SMP-03 Case

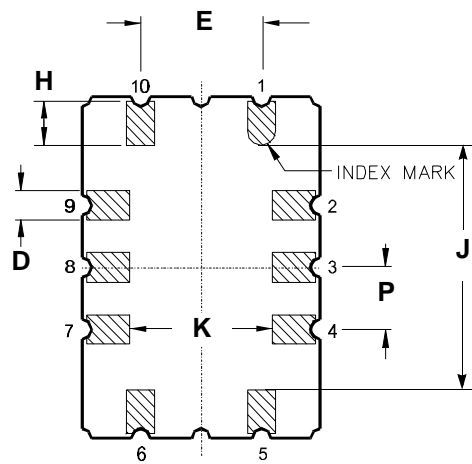
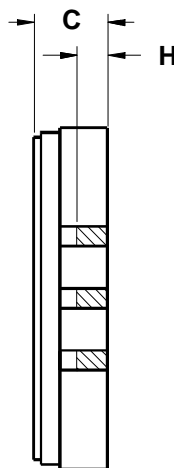
10-Terminal Ceramic Surface-Mount Case 7 x 5 mm Nominal Footprint



Recommended PCB Footprint



TOP VIEW



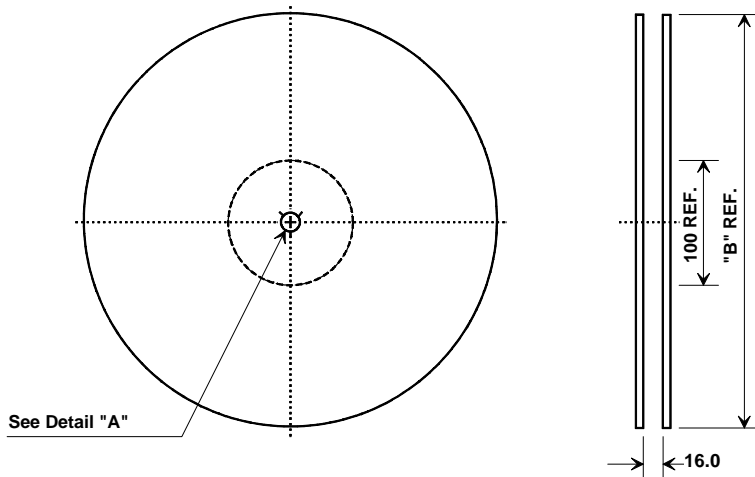
BOTTOM VIEW

Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	6.80	7.00	7.20	0.268	0.276	0.283
B	4.80	5.00	5.20	0.189	0.197	0.205
C		1.65	2.00		0.065	0.079
D	.47	0.60	.73	0.019	0.024	0.029
E	2.41	2.54	2.67	0.095	0.100	0.105
H	0.87	1.0	1.13	0.034	0.039	0.044
J	4.87	5.00	5.13	0.192	0.197	0.202
K	2.87	3.00	3.13	0.113	0.118	0.123
P	1.14	1.27	1.40	0.045	0.050	0.055

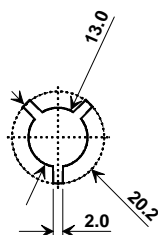
Materials	
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

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
Differential Operation		Return is hot

Tape and Reel Specifications

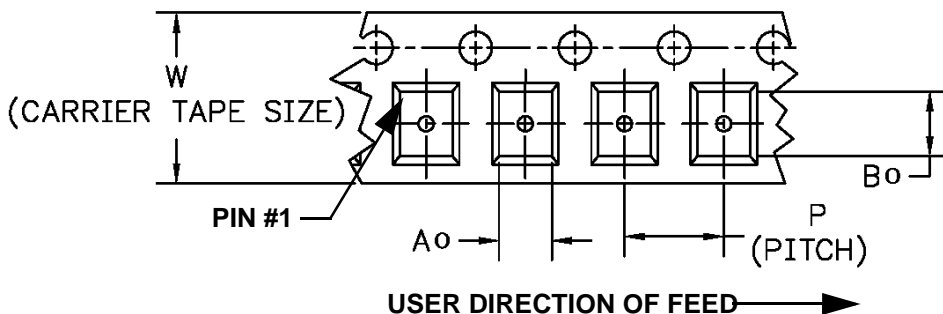
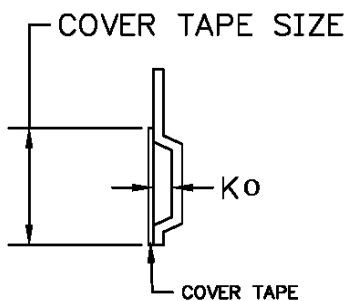


"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	5.5 mm
Bo	7.5 mm
Ko	2.0 mm
Pitch	8.0 mm
W	16.0 mm



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