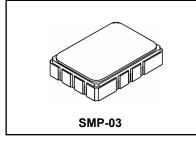


RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first date of manufacture.

SF1140B-2

75.00 MHz **SAW Filter**



· Designed for SDARS IF Receiver

- Low Insertion Loss
- 5.0 X 7.0 mm Surface-Mount Case
- · Differential Input and Output

Absolute Maximum Ratings

two orato maximum 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 for 10 s				

Electrical Characteristics

Sym	Notes	Min	Тур	Max	Units
f _C	1	75.000			MHz
IL	1 ' 1		11.0	13.0	dB
BW ₁		±2.1	±2.7		MHz
	1, 2			1.0	dB _{P-P}
GDV			40	200	ns _{P-P}
	1 2 2	40	43		dB
	1, 2, 3	36			- ub
T _A	1	-40		+105	°C
250 ohms				•	
	SMP-03 7 x 5 mm Nominal Footprin			orint	
		RFM SF1140B-2 YYWWS			
	f _C IL BW ₁	f _C 1	Table Tabl	fC IL 1 75.000 BW1 1, 2 ±2.1 ±2.7 GDV 40 40 43 TA 1 -40 250 ohms SMP-03 7 x 5 mm	f _C IL 1 75.000 11.0 13.0 BW ₁ I, 2 ±2.1 ±2.7 1.0 GDV 40 200 1, 2, 3 40 43 36 40 40 T _A 1 -40 +105 250 ohms SMP-03 7 x 5 mm Nominal Footy

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



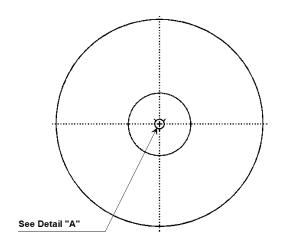
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

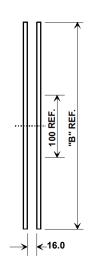
NOTES:

- 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. 2. 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.
 "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.
- 8.
- US and international patents may apply.

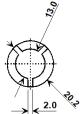
 Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Tape and Reel Specifications

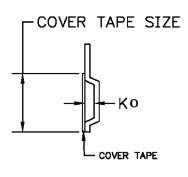




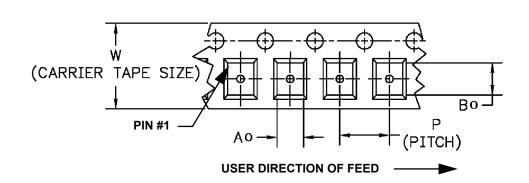
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



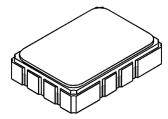
COMPONENT ORIENTATION and DIMENSIONS



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	ntial Operation	Return is hot

