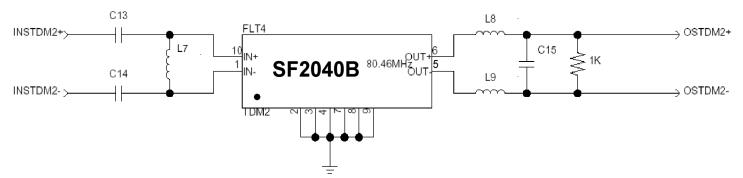
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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. 1.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc. 2
- 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 3. "Inpedance 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."
- 4.
- 5 The design, manufacturing process, and specifications of this filter are subject to change. Tape and Reel Standard ANSI / EIA 481.
- 6. 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. 9. US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Matching Circuit and Matching Component Values Used in G3 Sirius Radios

(Refer to Sirius Radio G3 Chipset Application Note, Doc. #RX000104-B, Sec. 4.2.5)

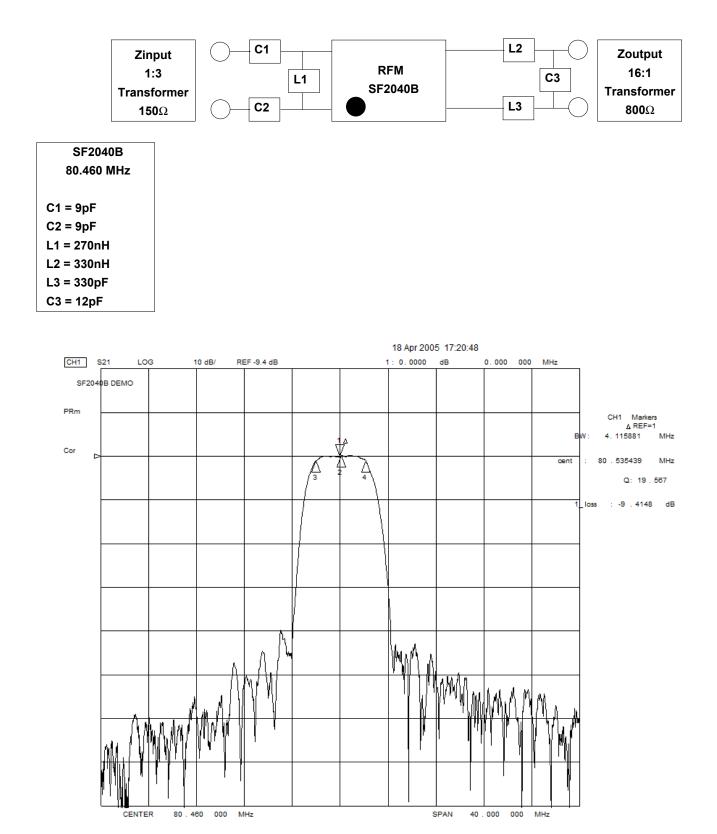


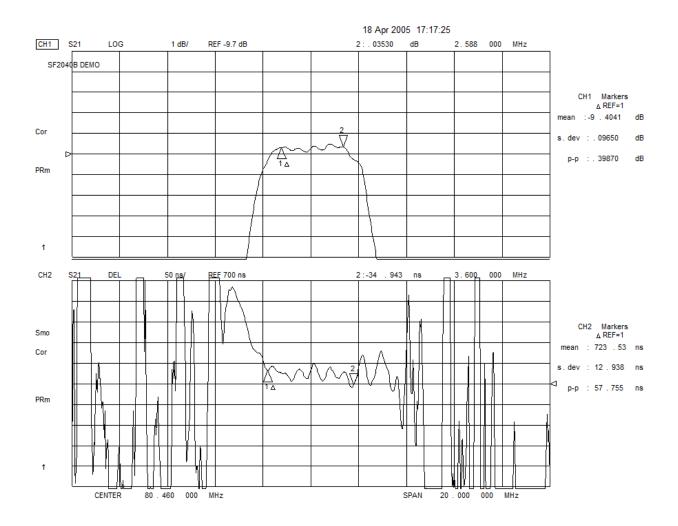
TDM2 Narrowband SAW Matching Circuit

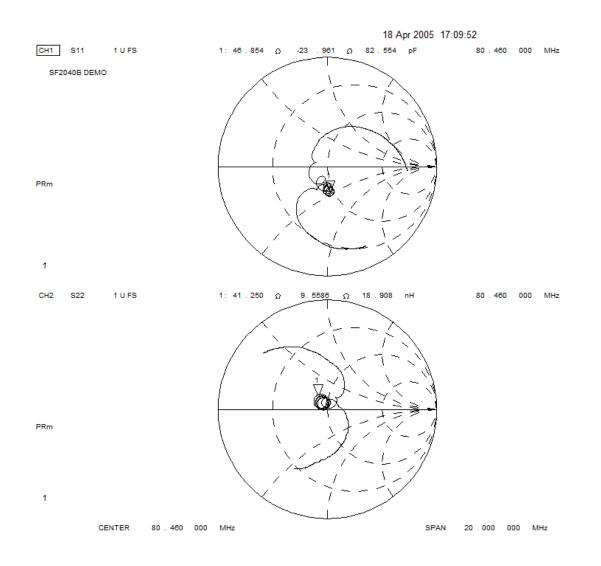
TDM2 Narrowband SAW Matching Values

Reference Designator	Value
C13	12 pF
C14	12 pF
L7	240 nH
L8	390 nH
L9	390 pF
C15	10 pF

Matching Circuit and Matching Component Values Used on Filter Demo Board



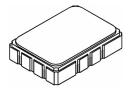




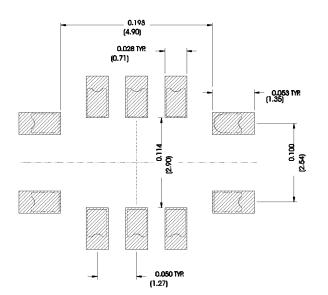
SMP-03 Case

10-Terminal Ceramic Surface-Mount Case

7 x 5 mm Nominal Footprint



Recommended PCB Footprint



Case Dimensions						
Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
A	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	.47	0.60	.73	0.019	0.024	0.029
E	2.41	2.54	2.67	0.095	0.100	0.105
н	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
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 ulnches (76.2-152 uM) over 80- 200 ulnches (203-508 uM) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phos- phorus) 100-200 ulnches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

Electrical Connections

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	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 h		Return is hot

INDEX MARK

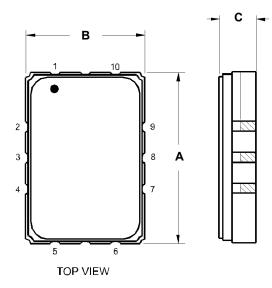
1

Ρ

2

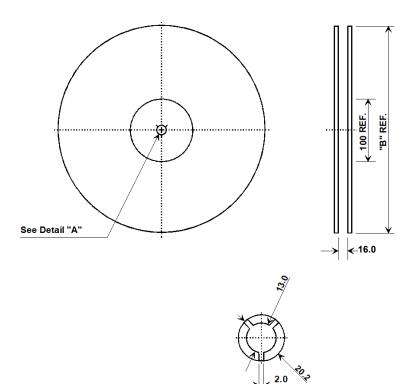
5

BOTTOM VIEW





Tape and Reel Specifications



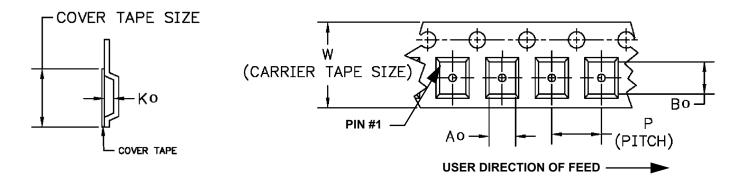
"В "		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	2000	

Product Reflow/ESD/MSL

Reflow Peak Temperature	265	°C
Reflow Peak Time	10	Seconds
Liquidus 217 Temperature/Time	110	Seconds
Over Liquidus 230 Temperature/Time	70	Seconds
Reflow Condition	SMT	
Class Level HBM	2	
HBM(V)	2000	HBM(V)
MM(∨)	N/A	MM(∨)
CDM(V)	2000	CDM(V)
MSL	1	

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		



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