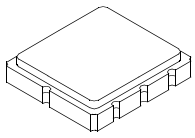
RF1353C

345.00 MHz SAW Filter

- ***Designed for 345 MHz Wireless Applications***
- ***Advanced (Lithium Tantelate) LiTaO3 design for low Insertion Loss***
- ***Designed for match to 50 ohms, no external LC required***
- ***Hermetically sealed Surface Mount package***



SM5050-8 Case

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+10	dBm
DC Voltage Between Terminals	30	VDC
Case Temperature	-40 to +85	°C

Electrical Characteristics

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Operating Frequency		f_C			345		MHz
Passband	Insertion Loss	IL				4.5	dB
	3.0 dB Bandwidth			Fc±70	Fc±430	Fc±1100	kHz
Rejection	Fc-10.7 MHz			15			dB
	Fc-21.4 MHz			40			dB
Matching	Untuned response				50		Ω
Ambient Temperature	Operating Range			-10		70	°C
Footprint Size: 5.0 X 5.0		SM5050-8					
Lid Symbolization (YY=Year, WW=week, S=shift)		RFM, 446, YYWWS					

Electrical Connections

Connection	Terminals
RF Input	2
RFOutput	6
Case Ground	All Others

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1.) All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise.
2.) Ultimate rejection is dependent on PCB layout.
3.) Specifications subject to change without notice.
4.) Electrostatic Sensitive Device. Observe precautions for handling.
5.) US and international patents may apply.
6.) RFM, RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

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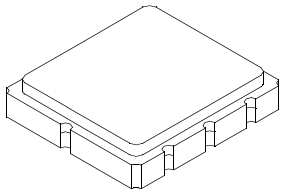
SM5050-8 Case

8-Terminal Ceramic Surface-Mount Case
5.0 X 5.0 mm Nominal Footprint



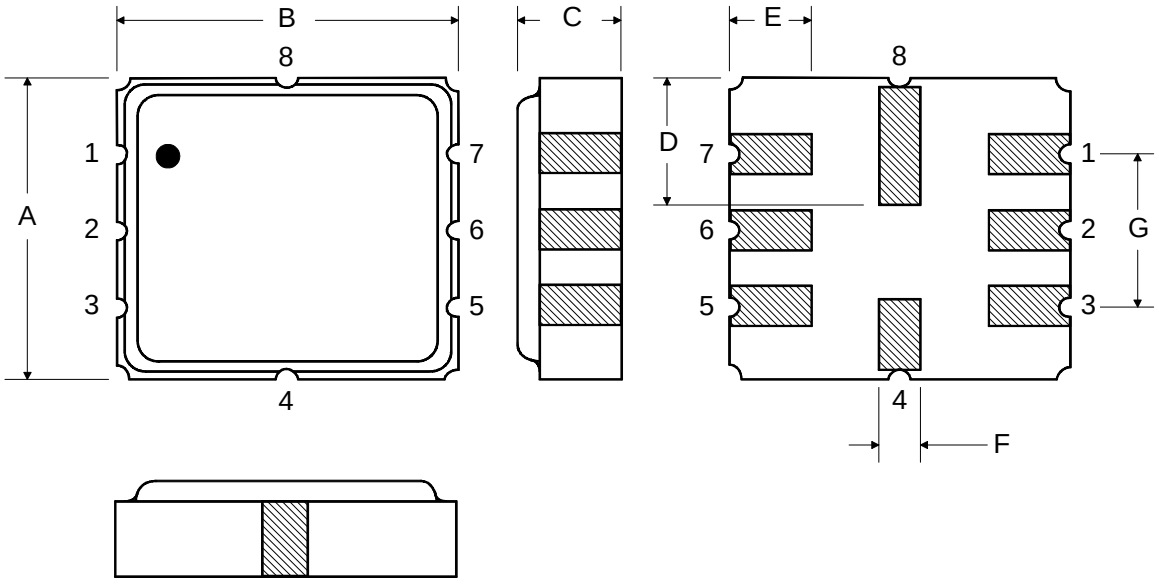
Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	4.8	5.0	5.2		0.1968	
B	4.8	5.0	5.2		0.1968	
C			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

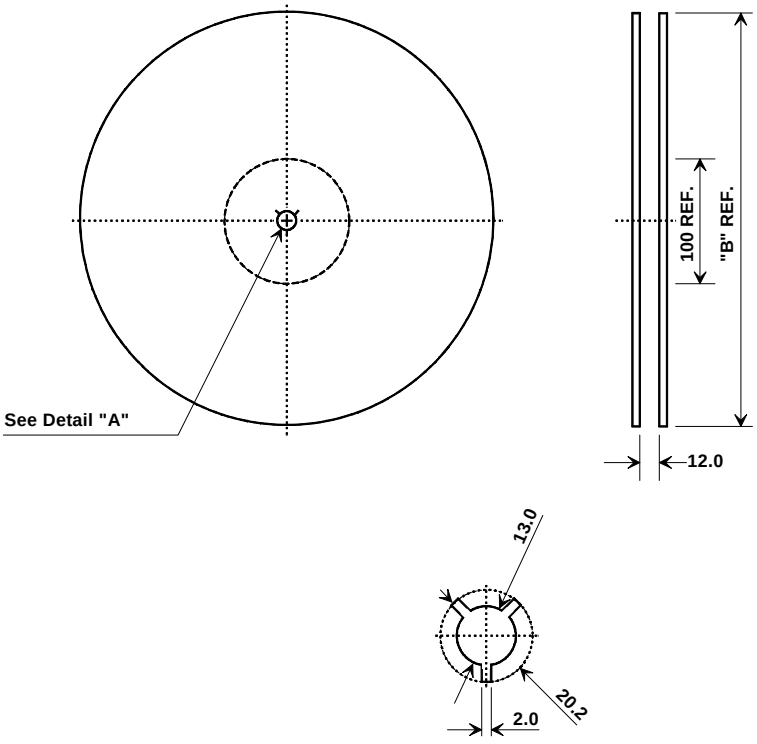
Electrical Connections

Connection		Terminals
Port 1	Differential Input	1, 2
Port 2	Differential Output	5, 6
	Ground	All others
Single Ended Operation		**Return is ground**
Differential Operation		**Return is hot**
Dot indicates Pin 1		

TOP VIEW BOTTOM VIEW



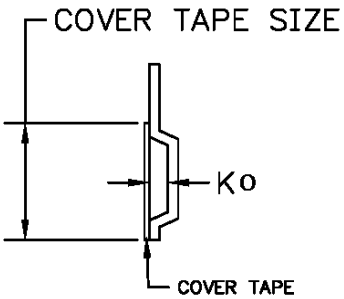
Tape and Reel Specifications

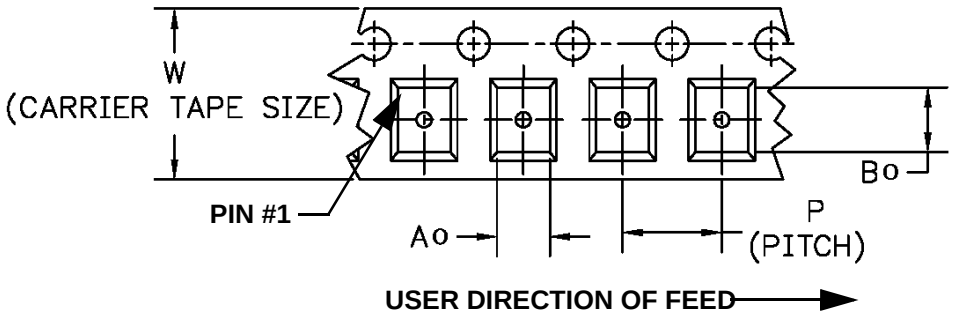


"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	1000
13	330	3000

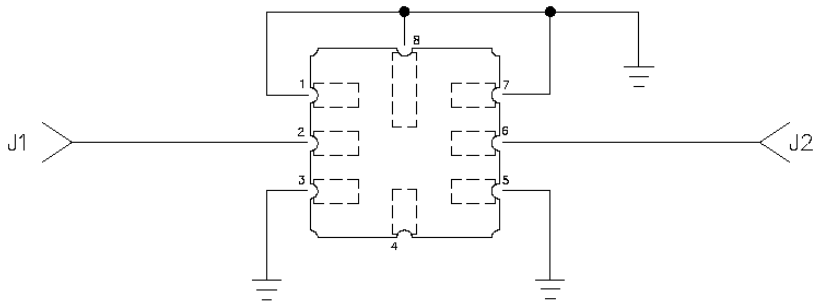
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	5.3 mm
Bo	5.3 mm
Ko	2.0 mm
Pitch	8.0 mm
W	12.0 mm





REV	ECN NO.	DESCRIPTION	APP/DATE
A	11Ø15	RELEASE	25sepØ2



D.U.T.
(TOP VIEW)

DRAWN BY/DATE: J.F.Christopherson 25sepØ2		TITLE: ASSEMBLY DIAGRAM, RF1353C_TD (DEMO)				
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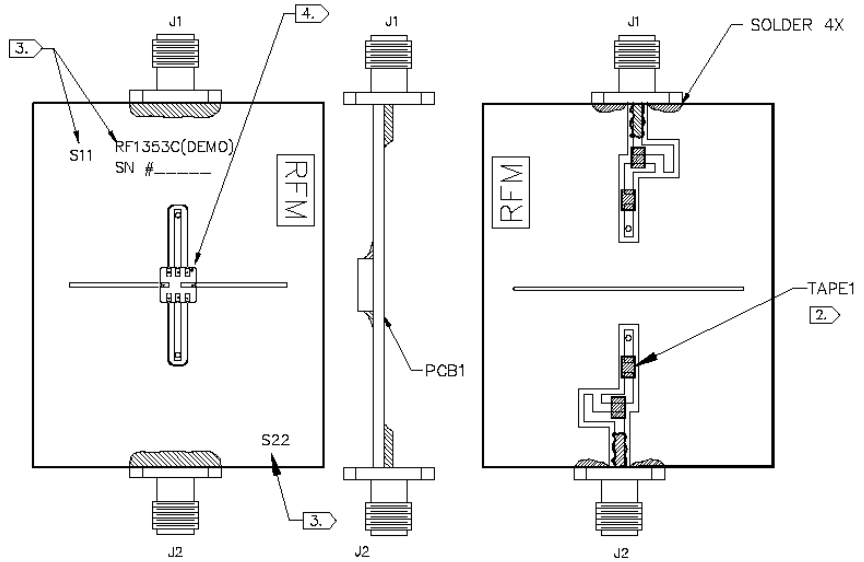
NOTES:
1. SOLDER MOUNT FLTR1 AND CONNECTORS TO PCB1
2. SOLDER TAPE1 FOUR PLACES AS SHOWN.
3. ATTACH LABELS AS SHOWN.
4. NOTE PROPER ORIENTATION OF SAW DEVICE.



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