

RF1353C

- 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
- Complies with Directive 2002/95/EC (RoHS)



345.00 MHz **SAW Filter**

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	Maximu	Units
Nominal Operating Freque	ency	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			I .	SM	15050-8		
Lid Symbolization (YY=Yea	ar, WW=week, S=shift)	 		RFM, 4	46, YYWWS		

Electrical Connections

Connection	Terminals
RF Input	2
RFOutput	6
Case Ground	All Others



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. Notes:

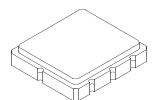
- All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise. Ultimate rejection is dependent on PCB layout.
- 3. Specifications subject to change without notice.
- Electrostatic Sensitive Device. Observe precautions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

SM5050-8 Case

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

Case Dimensions

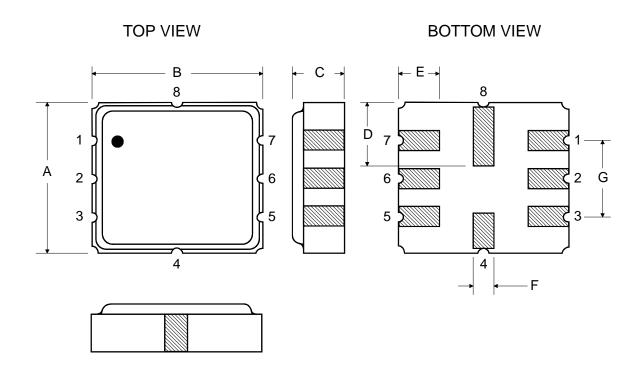
iiiii Noiiiiiai Footpi



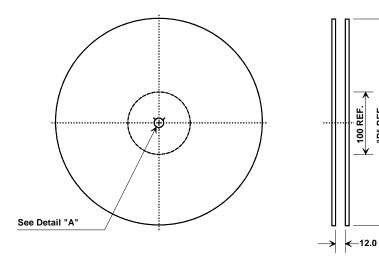
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	4.8	5.0	5.2		0.1968	
В	4.8	5.0	5.2		0.1968	
С			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

Electrical Connections

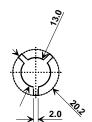
Connection		Terminals	
Port 1	Differential Input	1, 2	
Port 2	Differential Output	5, 6	
	Ground	All others	
Single Ended Operation		Return is ground	
Differential Operation		Return is hot	
Dot indicates Pin 1			



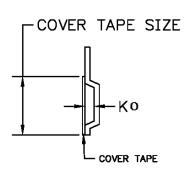
Tape and Reel Specifications



"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				
Во	5.3 mm				
Ко	2.0 mm				
Pitch	8.0 mm				
W	12.0 mm				

