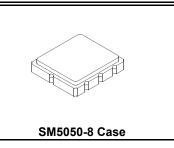


- Designed for 345 MHz Wireless Applications
- Advanced (Lithium Tantelate) LiTaO3 design for low Insertion Loss
- · Designed for match to 50 ohms, no external LC required
- Hermetically sealed Surface Mount package
- Complies with Directive 2002/95/EC (RoHS)

RF1353C

345.00 MHz **SAW Filter**



Absolute Maximum Ratings

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

Characteristic Nominal Operating Frequency		Sym	Notes	Minimum	Typical 345	Maximu	Units MHz
		f _C					
Passband	Insertion Loss	IL				4.5	dB
	3.0 dB Bandwidth			f _C ±70	f _C ±430	f _C ±1100	kHz
Rejection	f _C -10.7 MHz			15			dB
	f _C -21.4 MHz			40			dB
Matching	Untuned response				50		Ω
Ambient Temperature	Operating Range			-10		70	°C
Footprint: 5.0 X 5.0 mm	otprint: 5.0 X 5.0 mm SM5050-8						
Lid Symbolization (YY=Year, WW=week, S=shift)			446, <u>YWWS</u>				

Electrical Connections

Connection	Terminals
RF Input	2
RFOutput	6
Case Ground	All Others



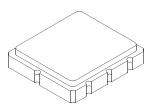
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.
- 1. 2. 3. 4. 5. 6.
- Specifications subject to change without notice. Electrostatic Sensitive Device. Observe precautions for handling. US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

SM5050-8 Case

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



Case Dimensions

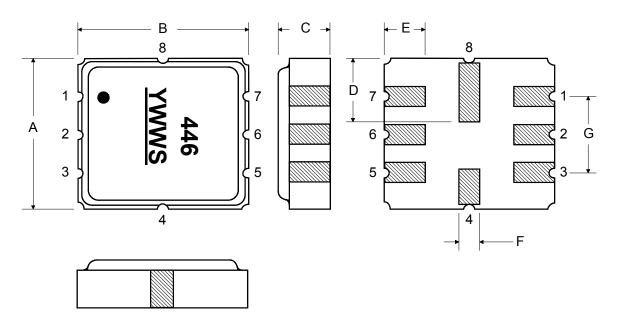
Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	4.8	5.0	5.2		0.1968	
В	4.8	5.0	5.2		0.1968	
С			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

Electrical Connections

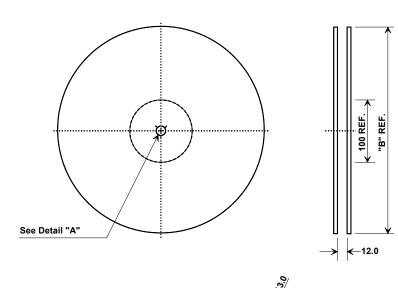
	Connection	Terminals
Port 1	Differential Input	1, 2
Port 2 Differential Output		5, 6
	Ground	All others
Single-ended Operation		Return is ground
Differential Operation		Return is hot
Dot indica	tes Pin 1	•

TOP VIEW





Tape and Reel Specifications

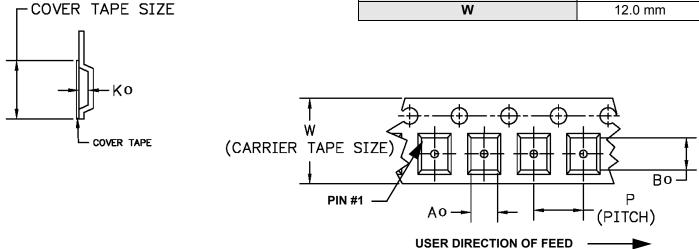


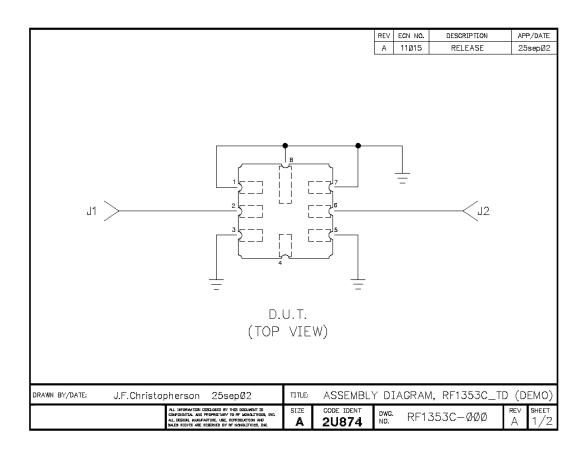
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

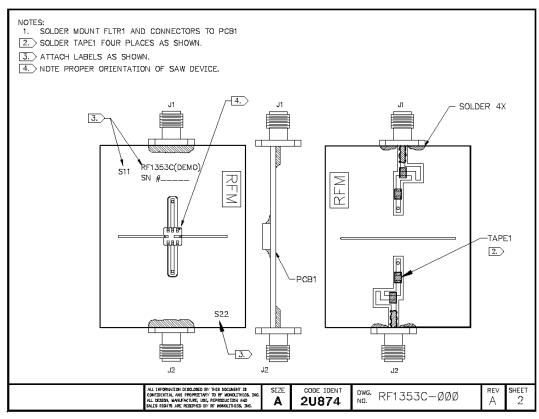
COMPONENT ORIENTATION and DIMENSIONS

2.0

Carrier Tape Dimensions				
Ао	5.3 mm			
Во	5.3 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
W	12.0 mm			







RF1353C

