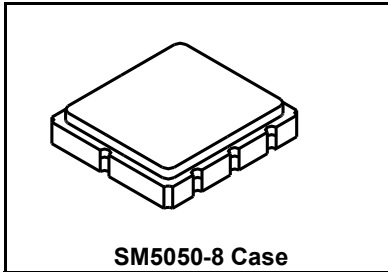


RF1353C

**345.00 MHz
SAW Filter**



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

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	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Operating Frequency	f_C			345		MHz
Passband	Insertion Loss	IL			4.5	dB
	3.0 dB Bandwidth		$f_C \pm 70$	$f_C \pm 430$	$f_C \pm 1100$	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				SM5050-8		
Lid Symbolization (YY=Year, WW=week, S=shift)				446, <u>Y</u> WWS		

Electrical Connections

Connection	Terminals
RF Input	2
RFOoutput	6
Case Ground	All Others

 **CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**
NOTES:

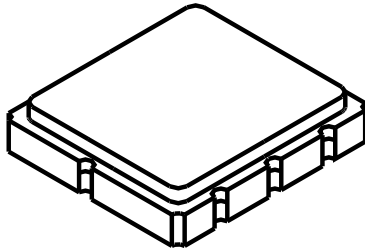
1. All specifications apply over the operating temperature range with filter soldered to the specified demonstration board unless noted otherwise.
2. Ultimate rejection is dependent on PCB layout.
3. Specifications subject to change without notice.
4. Electrostatic Sensitive Device. Observe precautions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

Discontinued

SM5050-8 Case

8-Terminal Ceramic Surface-Mount Case

5.0 X 5.0 mm Nominal Footprint



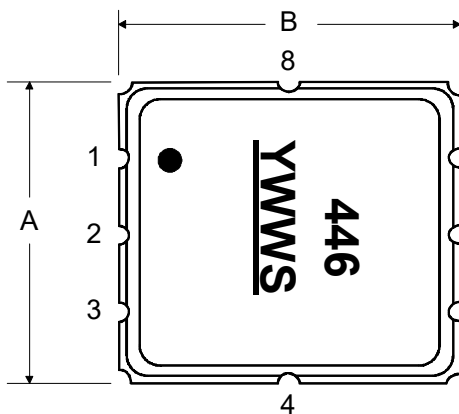
Case Dimensions

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	

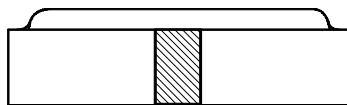
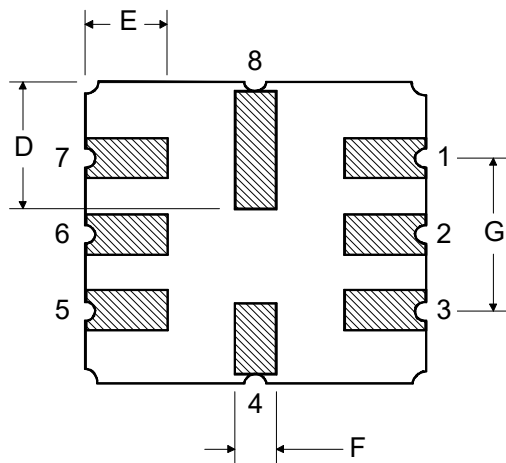
Electrical Connections

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

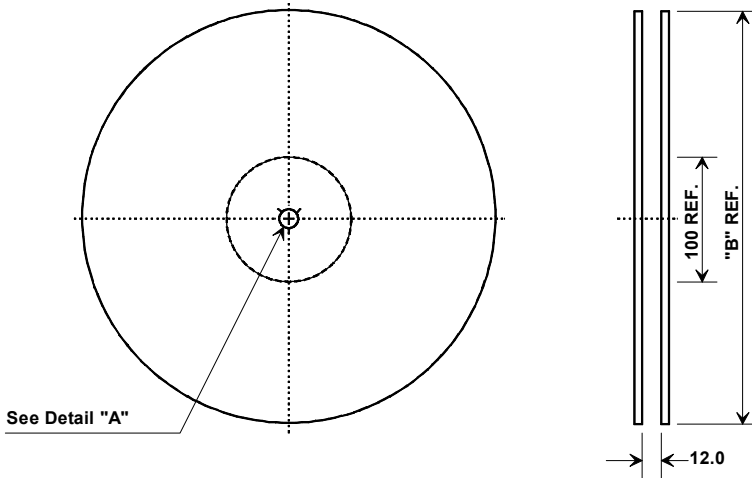


BOTTOM VIEW

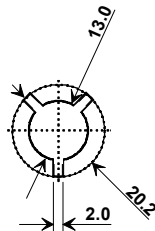


Discontinued

Tape and Reel Specifications

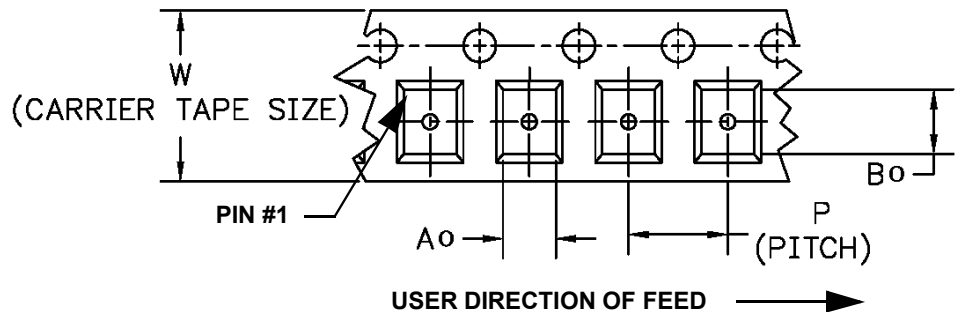
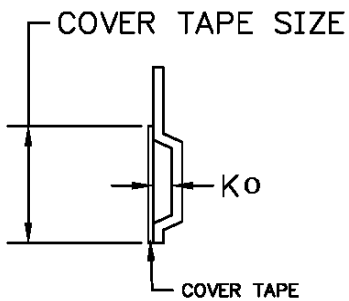


"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

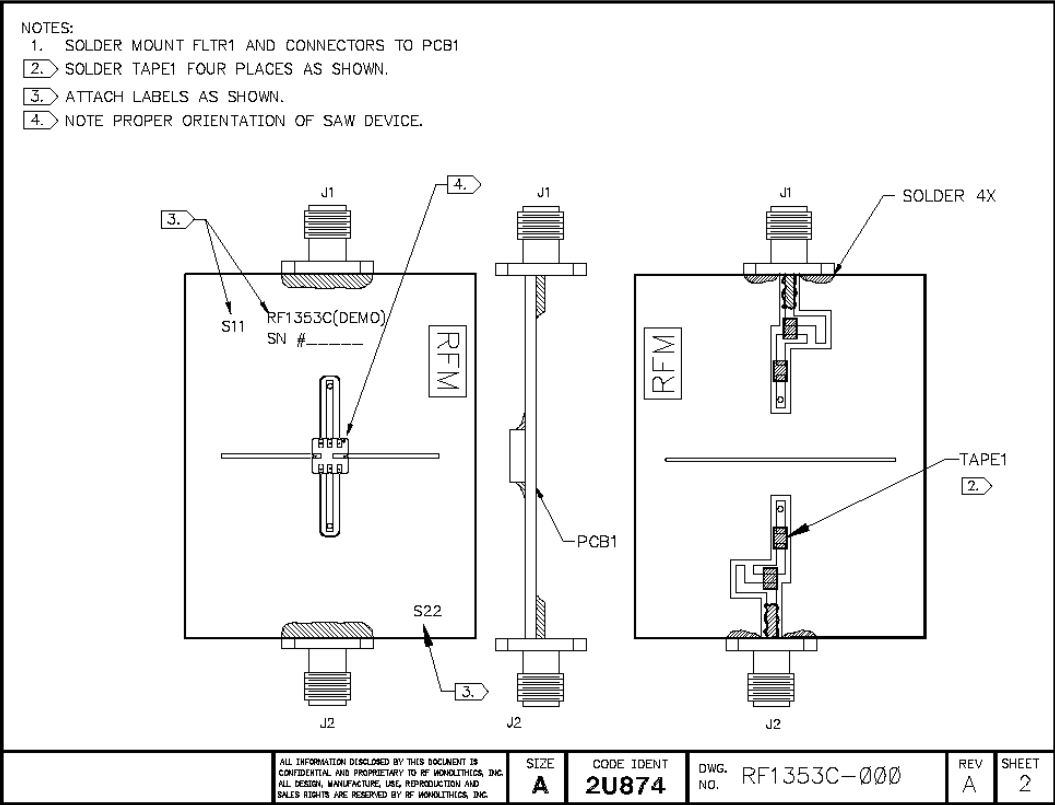
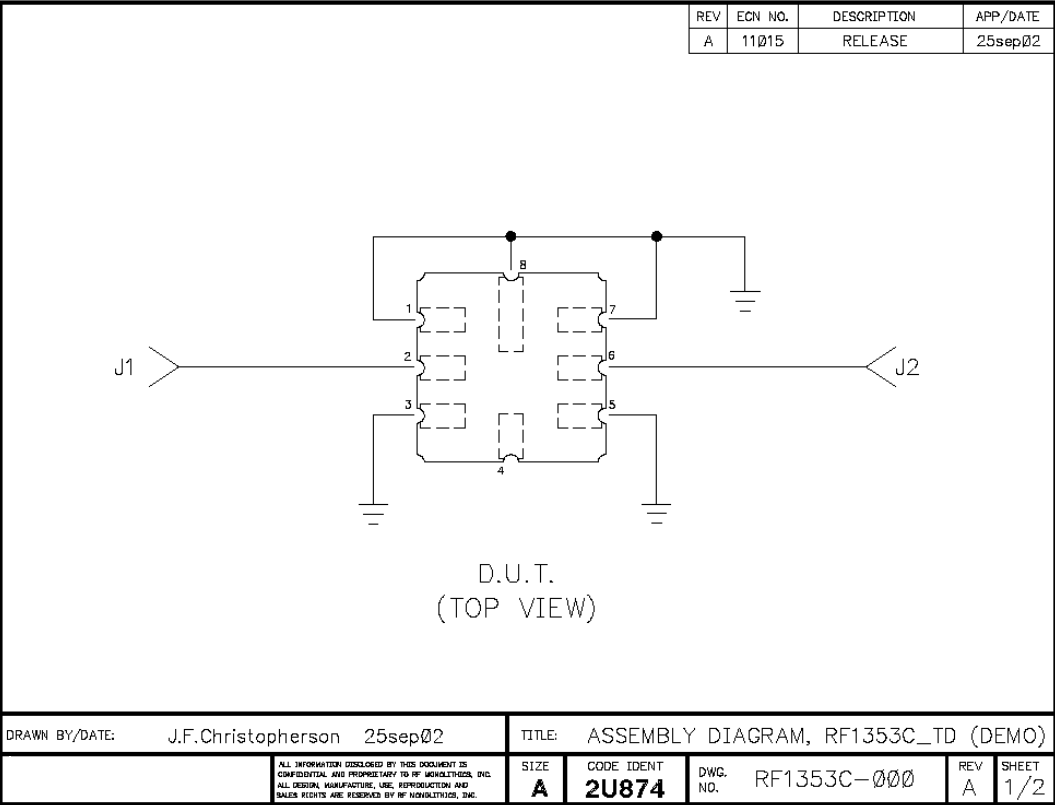


COMPONENT ORIENTATION and DIMENSIONS

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

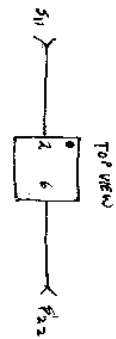
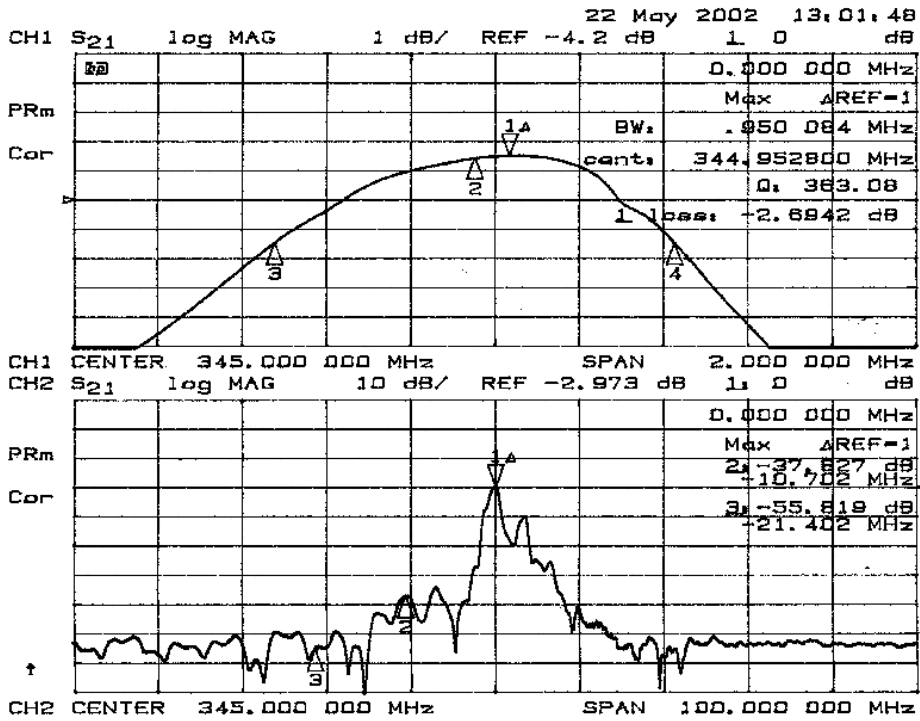


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RF1353C



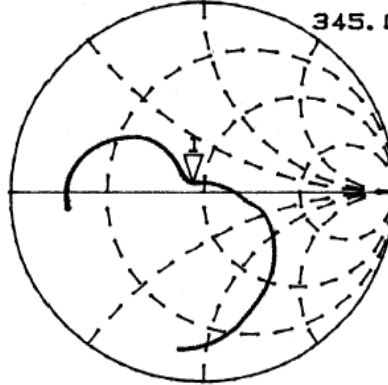
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CH1 S11 1 U FS 1 45.432 n 4.3457 n 2.0048 nH

345.000 000 MHz

PRm

Cor

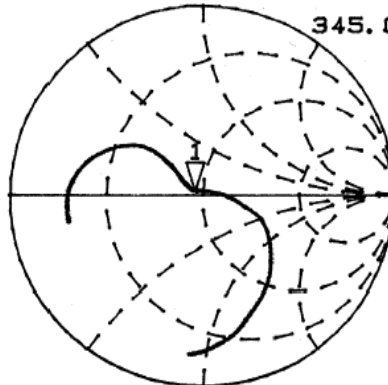


CH2 S22 1 U FS 1 46.686 n 2.0625 n 951.47 pH

345.000 000 MHz

PRm

Cor



CENTER 345.000 000 MHz SPAN 2.000 000 MHz