

- 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
- Complies with Directive 2002/95/EC (RoHS)
- Tape and Reel Standard per ANSI/EIA-481

SAW Filter

RF1353C

345.00 MHz

Compliant

Absolute Maximum Ratings

Rating	Value	Units	
Maximum Input Power	+10	dBm	
Maximum DC Voltage Between Terminals	30	VDC	
Case Temperature	-40 to +85	°C	
SOlder Reflow Temperature, 5 Cycles Maximum	260° C for	260° C for 10 seconds	

Characteristic		Sym	Notes	Minimum	Typical	Maximu	Units
Nominal Operating Frequen	су	f _C			345		MHz
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			SM5050-8			•	
Lid Symbolization (YY=Year	, WW=week, S=shift)		446 <u>,YWWS</u>				

Electrical Connections

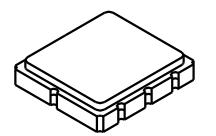
Connection	Terminals
RF Input	2
RFOutput	6
Case Ground	All Others

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

SM5050-8 Case

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



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		

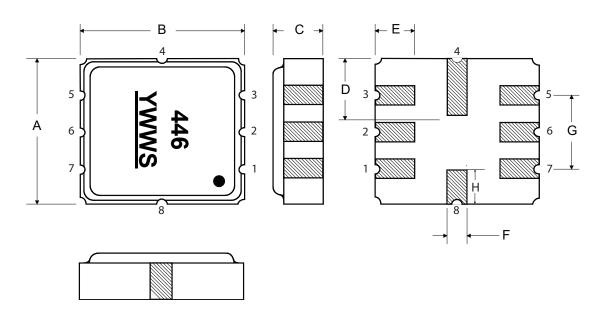
Case Dimensions

Electrical Connections

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

TOP VIEW



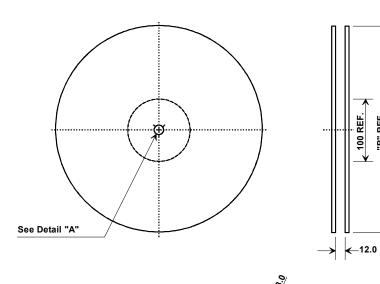


Tape and Reel Specifications

"B" REF

7

13



"**B** " **Nominal Size Quantity Per Reel** Inches millimeters

500

3000

178

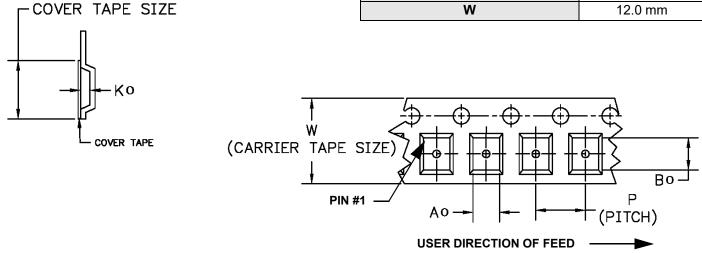
330

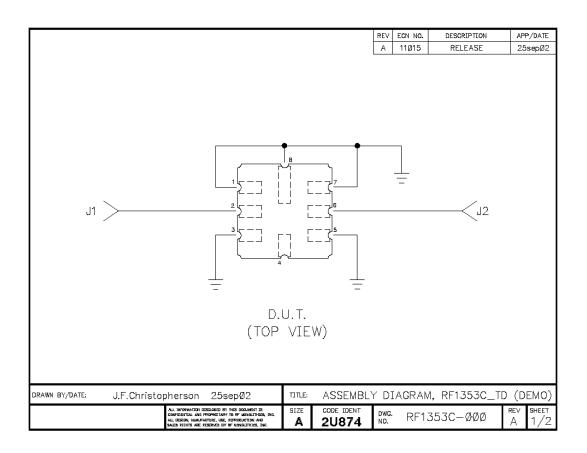
Tape and Reel Standard per ANSI/EIA-481

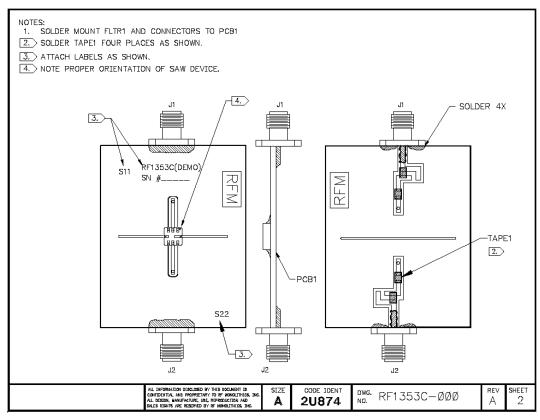
COMPONENT ORIENTATION and DIMENSIONS

2.0

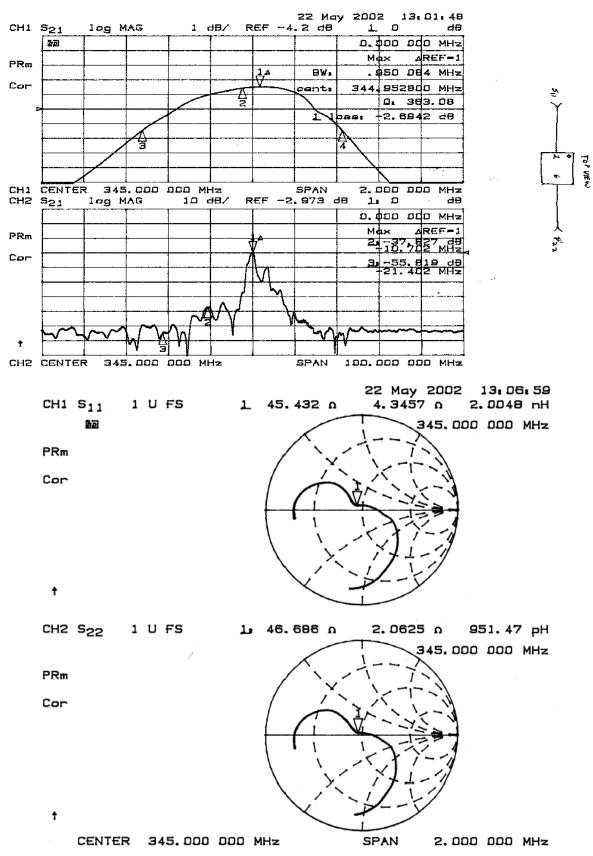
Carrier Tape Dimensions			
Ао	5.3 mm		
Во	5.3 mm		
Ко	2.0 mm		
Pitch	8.0 mm		
W	12.0 mm		







RF1353C



Recommended Reflow Profile

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
- 4. Time: 5 times maximum.

