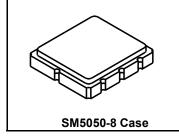


AEC-Q200
This component was always
RoHS compliant from the first
date of manufacture.

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

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 10 seconds	

Characteristic		Sym	Notes	Minimum	Typical	Maximu	Units
Nominal Operating Frequency		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

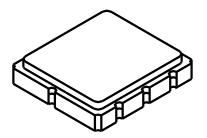
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.

SM5050-8 Case

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

Case Dimensions



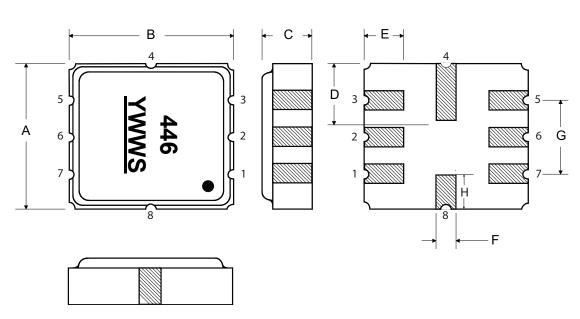
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	4.8	5.0	5.2		0.1968	
В	4.8	5.0	5.2		0.1968	
С			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

Electrical Connections

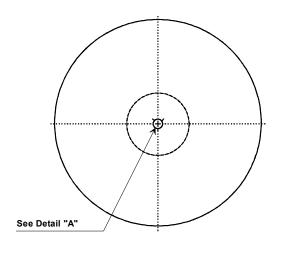
	Connection	Terminals		
Port 1	Differential Input	1, 2		
Port 2 Differential Output		5, 6		
	Ground	All others		
Single-ended Operation		Return is ground		
Differential Operation		Return is hot		
Dot indicates Pin 1				

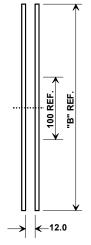
TOP VIEW

BOTTOM VIEW



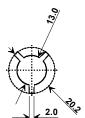
Tape and Reel Specifications





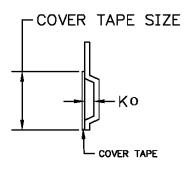
Tape and Reel Standard per ANSI/EIA-481

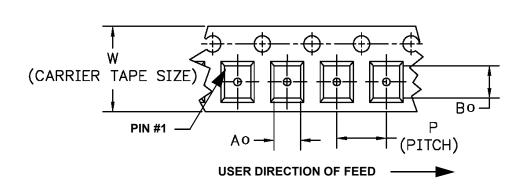
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

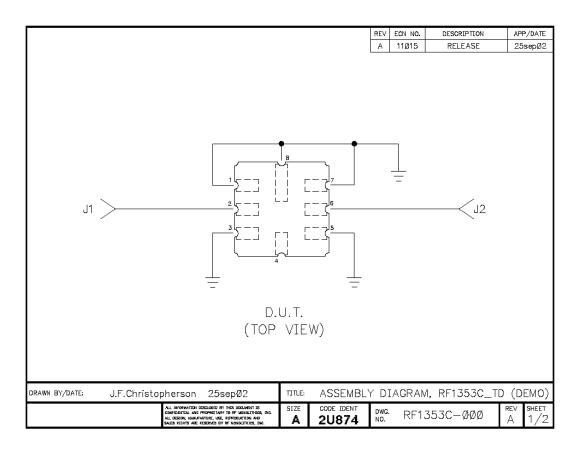


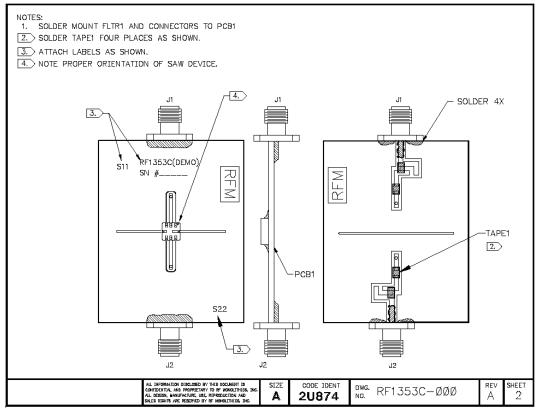
COMPONENT ORIENTATION and DIMENSIONS

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

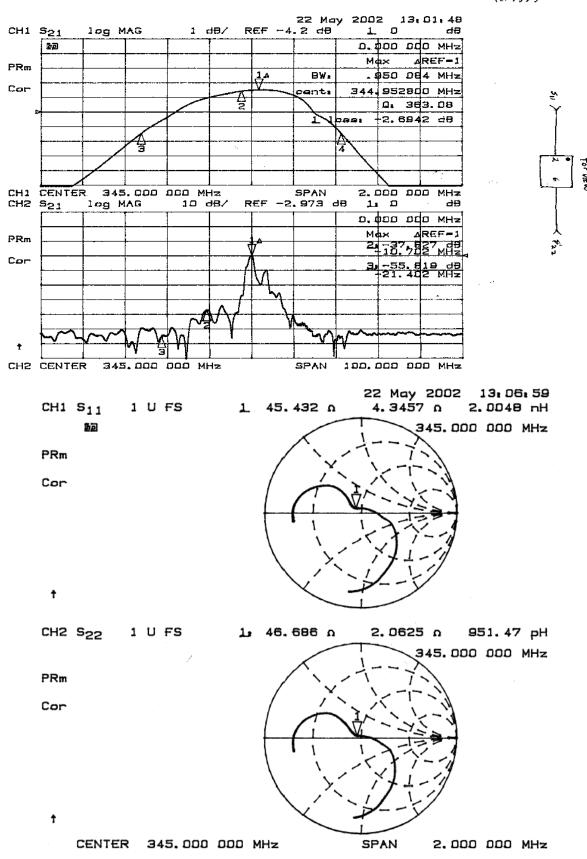






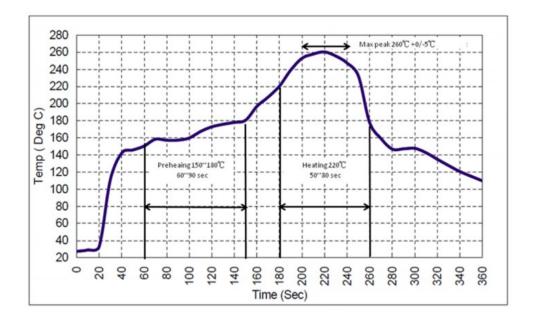


RF1353C



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.



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