

· Low Insertion Loss

Designed for WLAN IF Applications

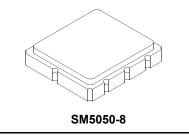
• 5.0 x 5.0 x 1.7 mm Suface-Mount Case

Differential or Single Ended Input and Output
 Complies with Directive 2002/95/EC (RoHS)

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

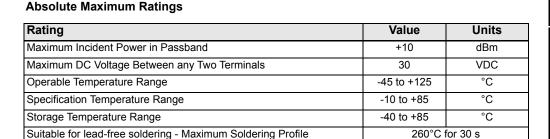
SF1174B

374.00 MHz SAW Filter



0544740

374.00



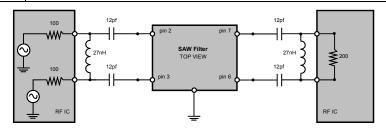
Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C			374.000		MHz
Passband	Insertion Loss at fc	IL			8.7	10.0	dB
	3 dB Passband	BW ₃		17	23		MHz
	Amplitude Ripple over fc ±7.0 MHz				0.8	1.0	dB _{P-P}
	Group Delay Variation over fc ±7.0	GDV			61	100	ns _{P-P}
Rejection	fc -100 to fc -33 MHz			45	54		
	fc -33 to fc -22 MHz			40	53		
	fc -22 to fc -16.5 MHz			30	40		dB
	fc +16.5 to fc +22 MHz			30	44		uБ
	fc +22 to fc +43 MHz			35	48		
	fc +43 to fc +100 MHz			40	49		1
Operating Temperature Range		T _A		-10		+85	°C

Differential Input / Output Impedance Match	External L-C		
Case Style	SM5050-8 5 X 5 mm Nominal Footprint		
Lid Symbolization (YY=year, WW=week, S=shift)	447, <u>YWWS</u>		

Electrical Connections

Connection	Terminals
Port 1 Hot	2
Port 1 Gnd Return	3
Port 2 Hot	6
Port 2 Gnd Return	7
Case Ground	All others



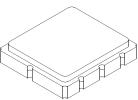
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

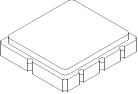
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.

SM5050-8 Case

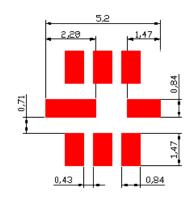
8-Terminal Ceramic Surface-Mount Case 5.0 X 5.0 mm Nominal Footprint

Case Dimensions





PCB FOOTPRINT



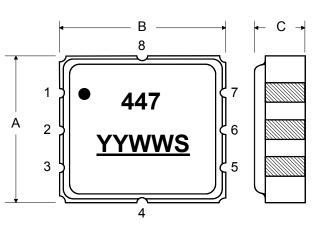
Dimension	mm		Inches			
	Min	Nom	Max	Min	Nom	Max
Α	4.8	5.0	5.2		0.1968	
В	4.8	5.0	5.2		0.1968	
С			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

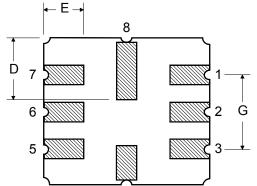
Electrical Connections

Connection		Terminals	
Port 1	Differential Input	2,3	
Port 2	Differential Output	6,7	
	Ground	All others	
Single Ended Operation		Return is ground	
Differential Operation		Return is hot	
Dot indica	Dot indicates Pin 1		

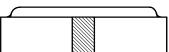
Materials		
Solder Pad Termination	Au plating 30 - 60 μnches (76.2-152 μM) over 80-200 ulnches (203-508 μM) Ni.	
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µInches Thick	
Body	Al ₂ O ₃ Ceramic	
Pb Free		

TOP VIEW

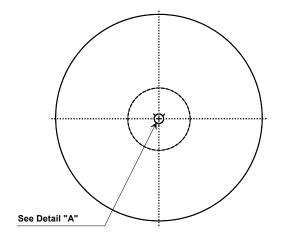


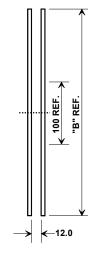


BOTTOM VIEW



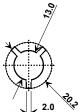
Tape and Reel Specifications





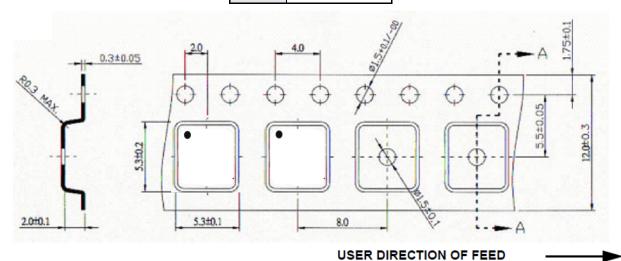
Tape and Reel Standard per ANSI/EIA-481

"B " Nominal Size		Quantity Per Reel	
Inches	millimeters		
7	178	500	
13	330	2000	



COMPONENT ORIENTATION and DIMENSIONS

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



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.

