

## SF1174B

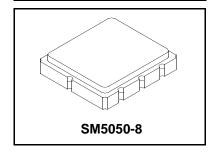
- Designed for WLAN IF Applications
- Low Insertion Loss
- 5.0 x 5.0 x 1.7 mm Suface-Mount Case
- Differential or Single Ended Input and Output
- Complies with Directive 2002/95/EC (RoHS)



### **Absolute Maximum Ratings**

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85 °C	
Suitable for lead-free soldering - Max Soldering Profile	260°C for 30 s	

## 374.00 MHz SAW Filter



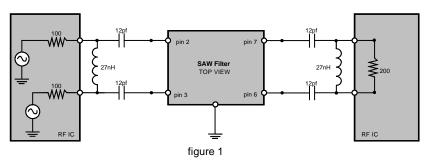
#### **Electrical Characteristics**

Ch	aracteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f <sub>C</sub>	1		374.000		MHz
Passband	Insertion Loss at fc	IL	1		8.7	10.0	dB
	3 dB Passband	BW <sub>3</sub>	1, 2	17	23		MHz
	Amplitude Ripple over fc ±7.0 MHz		1		0.8	1.0	dB <sub>P-P</sub>
	Group Delay Variation over fc ±7.0	GDV			61	100	ns <sub>P-P</sub>
Rejection	fc -100 to fc -33 MHz		1, 2, 3	45	54		
	fc -33 to fc -22 MHz			40	53		
	fc -22 to fc -16.5 MHz		1	30	40		dB
	fc +16.5 to fc +22 MHz		1	30	44		uв
	fc +22 to fc +43 MHz		1	35	48		
	fc +43 to fc +100 MHz		1	40	49		•
Operating Temperature Range	)	T <sub>A</sub>	1	-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, YYWWS

#### **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



#### Notes:

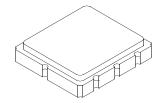
- 1. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50  $\Omega$  and measured with 50  $\Omega$  network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
- The design, manufacturing process, and specifications of this filter are subject to change
- Either Port 1 or Port 2 may be used for either input or output in the design.
  However, impedances and impedance matching may vary between Port 1 and
  Port 2, so that the filter must always be installed in one direction per the circuit
  design.
- 7. US and international patents may apply.
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- 0. Electrostatic Sensitive Device. Observe precautions for handling



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## **SM5050-8** Case

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



### **Case Dimensions**

Dimension	mm			Inches		
Difficusion	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	

#### **Materials** Solder Pad Au plating 30 - 60 ulnches (76.2-152 uM) over 80-Termination 200 uInches (203-508 uM) Ni. Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Lid Phosphorus) 100-200 ulnches Thick

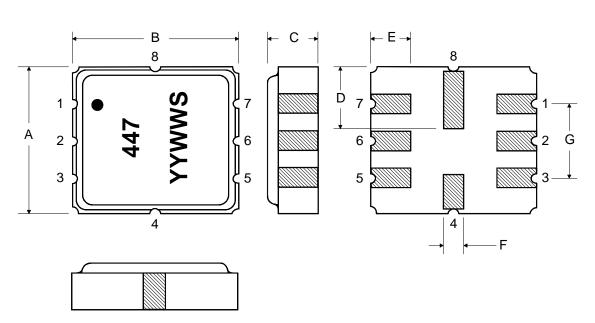
# Body Al<sub>2</sub>O<sub>3</sub> Ceramic Pb Free

#### **Electrical Connections**

	Connection	Terminals
Port 1	Differential Input	2,3
Port 2	Differential Output	6,7
	Ground	All others
Single End	led Operation	Return is ground
Differentia	l Operation	Return is hot
Dot indicate	es Pin 1	

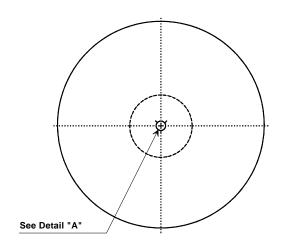
### **TOP VIEW**

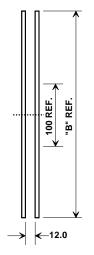
## **BOTTOM VIEW**



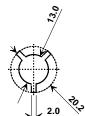
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**Tape and Reel Specifications** 

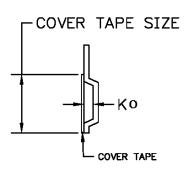




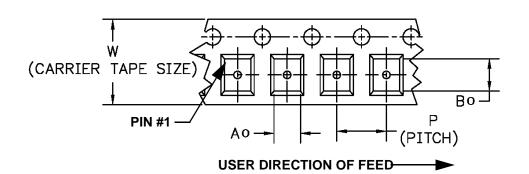
"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000



### **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			



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