



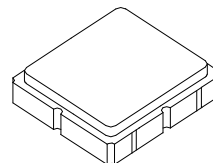
- Low-loss SAW Filter for Wimax Application
- 3.0 x 3.0mm Surface Mount Case
- 50Ω Input/Output Impedance

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +95	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	

SF2126E

**725.00 MHz
SAW Filter**



SM3030-8

Electrical Characteristics

Characteristic		Sym	Notes	Min (-40 to 95°C)	Typ	Max (-30 to 85°C)	Max (-40 to 95°C)	Units
Nominal Center Frequency		f_c			725			MHz
Frequency Range				700			750	MHz
Insertion Loss		IL			2.6	3.0	4.0	dB
Amplitude Ripple, p-p, 700 to 750 MHz					1	1.5	1.8	
VSWR						2.2	2.5	
Attenuation Referenced to 0 dB:								
500 to 600 MHz				40				
601 to 650 MHz				30				
651 to 665 MHz				20				
780 to 824 MHz				15				
825 to 844 MHz				30				
845 to 960 MHz				40				
Source Impedance		Z_S			50			Ω
Load Impedance		Z_L			50			Ω

Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint	
Lid Symbolization, Y=year, WW=week, S=shift, dot=pin 1 indicator	648, YWWS	
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel

Electrical Connections

	Connection	Terminals
Port 1	Input	1
Port 2	Output	5
	Ground	All Others

Dot Indicates Pin 1

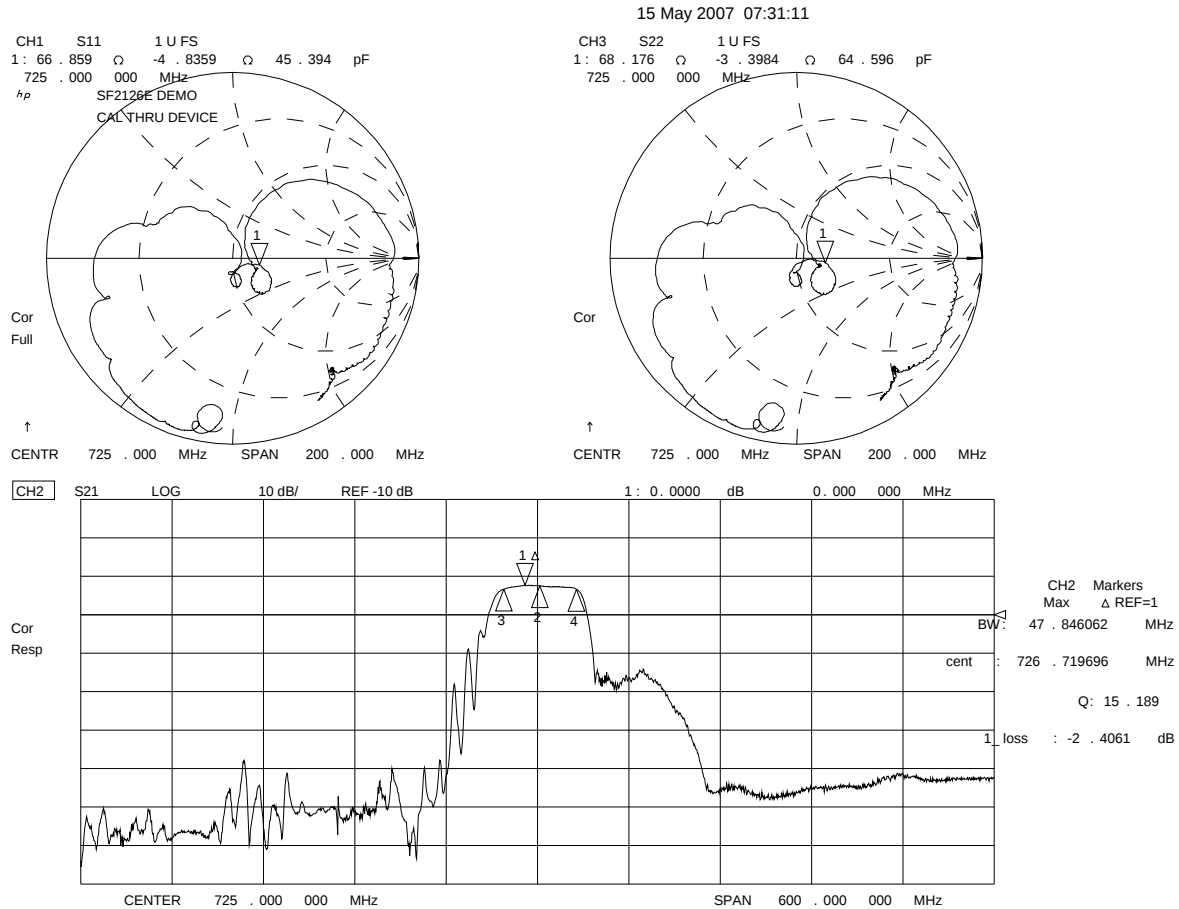


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

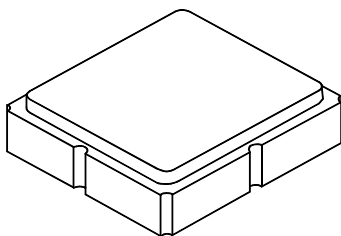
Notes:

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 Ω and measured with 50 Ω network analyzer.
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, f_c .
3. The design, manufacturing process, and specifications of this filter are subject to change.
4. US and international patents may apply.
5. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

Frequency Characteristics:

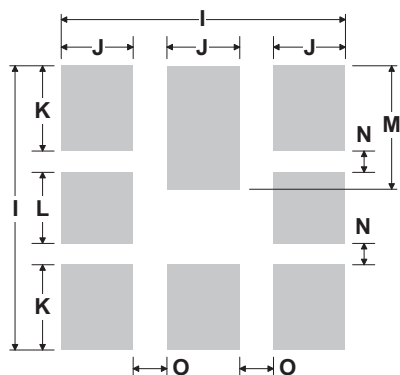


8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint



Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.0	3.13	0.113	0.118	0.123
B	2.87	3.0	3.13	0.113	0.118	0.123
C	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
H	1.07	1.20	1.33	0.042	0.047	0.052
I		3.19			0.126	
J		0.81			0.032	
K		0.96			0.038	
L		0.81			0.032	
M		1.39			0.055	
N		0.23			0.009	
O		0.38			0.015	

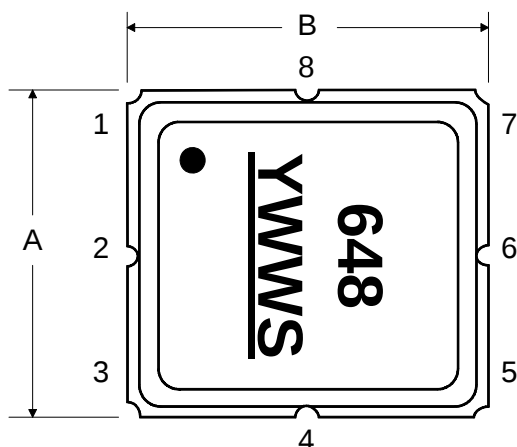


PCB Footprint Top View

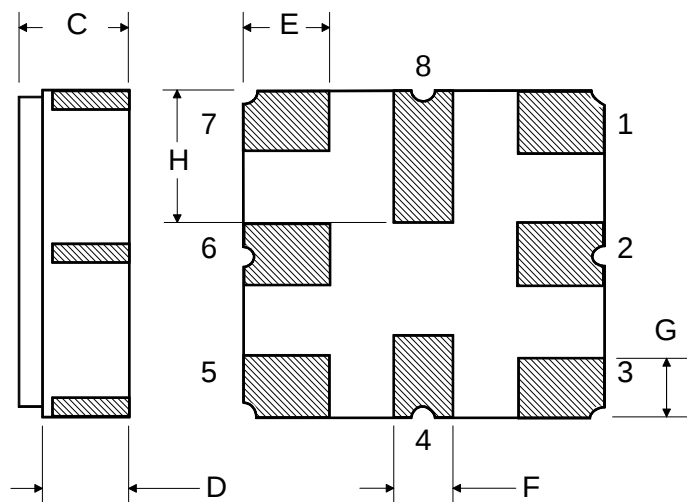
Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel
Lid Plating	2.0 to 3.0 μm Nickel
Body	Al_2O_3 Ceramic
	Pb Free

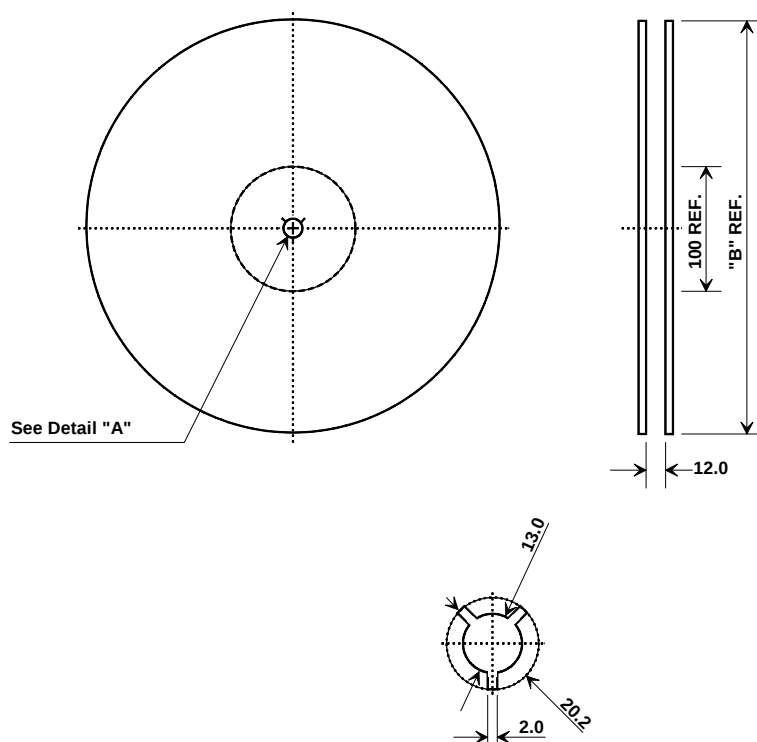
TOP VIEW



BOTTOM VIEW



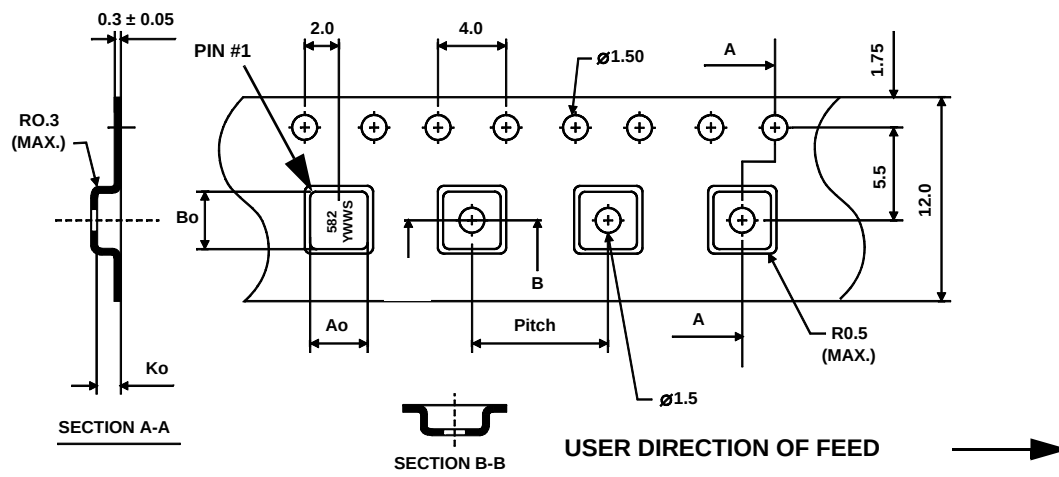
Tape and Reel Specifications



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

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	3.35 mm
Bo	3.35 mm
Ko	1.40 mm
Pitch	8.0 mm
W	12.0 mm



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[RFM:](#)

[SF2126E](#)