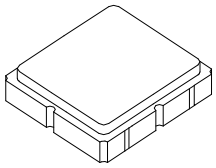
Preliminary

RFM®

SF2126E

725.00 MHz SAW Filter

- ***RF Filter for Wimax Application***
- ***3.0 x 3.0mm Surface Mount Case***
- ***50Ω Input / Output Impedance***



SM3030-8

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	15	dBm
DC Voltage	3	V
Operating Temperature Range	-30 to +85	℃
Storage Temperature Range	-40 to +85	℃

Electrical Characteristics

Characteristic		Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency		F_C			725		MHz
Frequency Range				700		750	MHz
Insertion Loss		IL			2.6	3.0	dB
Ripple	700 - 750 MHz				1	1.5	
VSWR						2.2	
Attenuation (absolute)	500 - 600 MHz			40			
	601 - 650 MHZ			30			
	651 - 665 MHZ			20			
	780 - 824 MHZ			15			
	825 - 844 MHZ			30			
	845 - 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	1000 Pieces/Reel
Reel Size 13 Inch	3000 Pieces/Reel

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, fc.
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.
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7. Electrostatic Sensitive Device. Observe precautions for handling.

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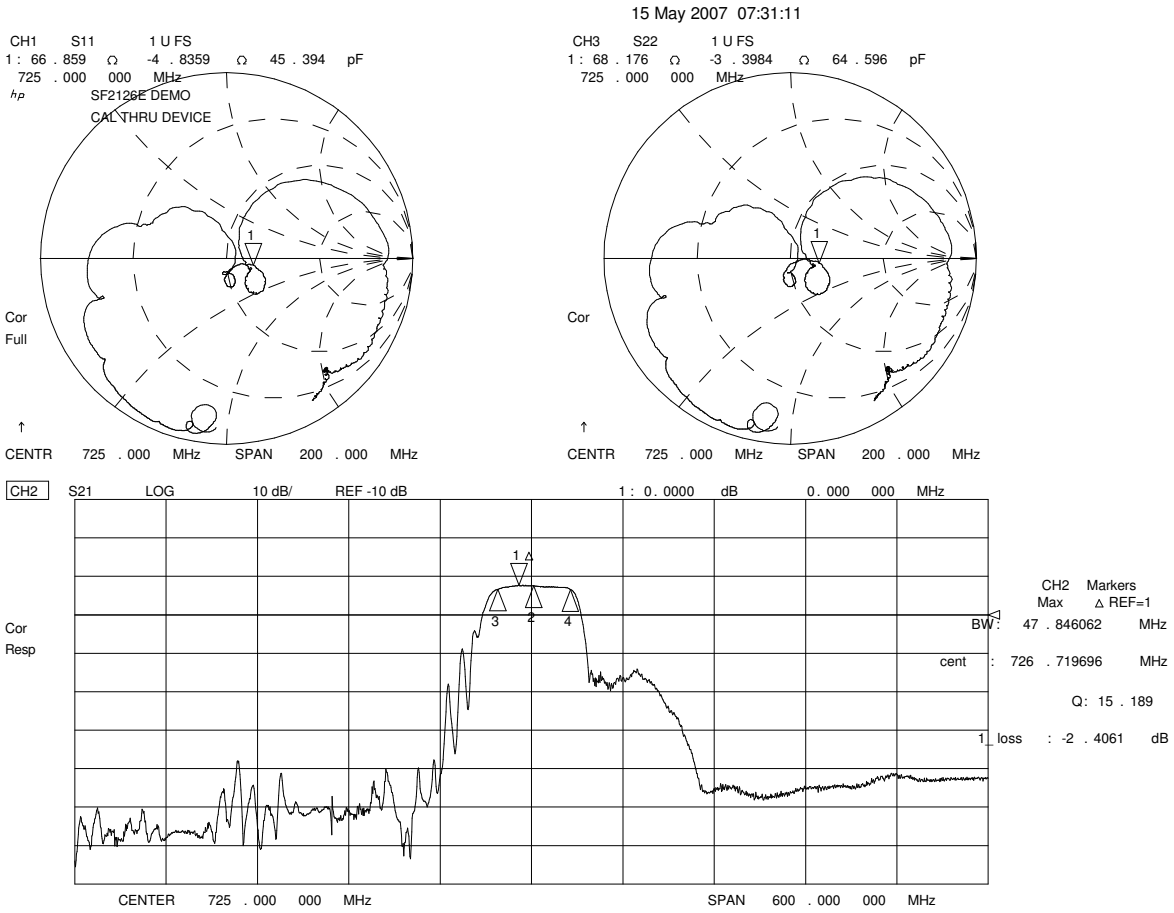
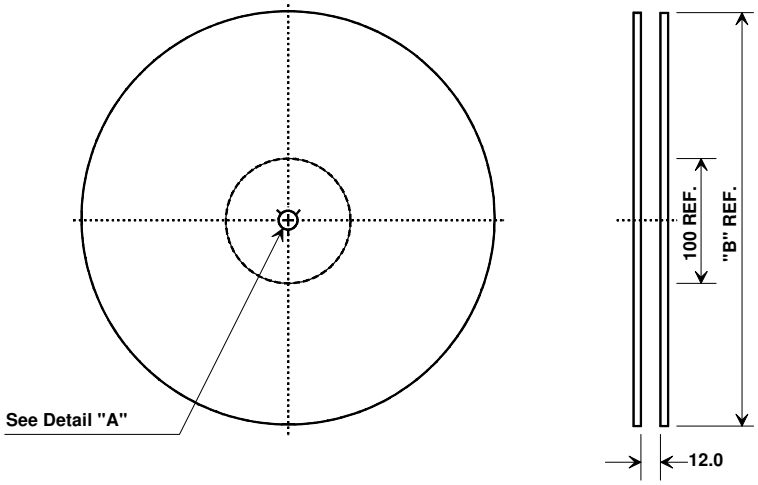
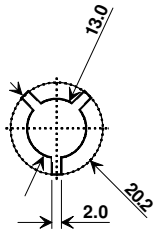
Frequency Characteristics:



Tape and Reel Specifications

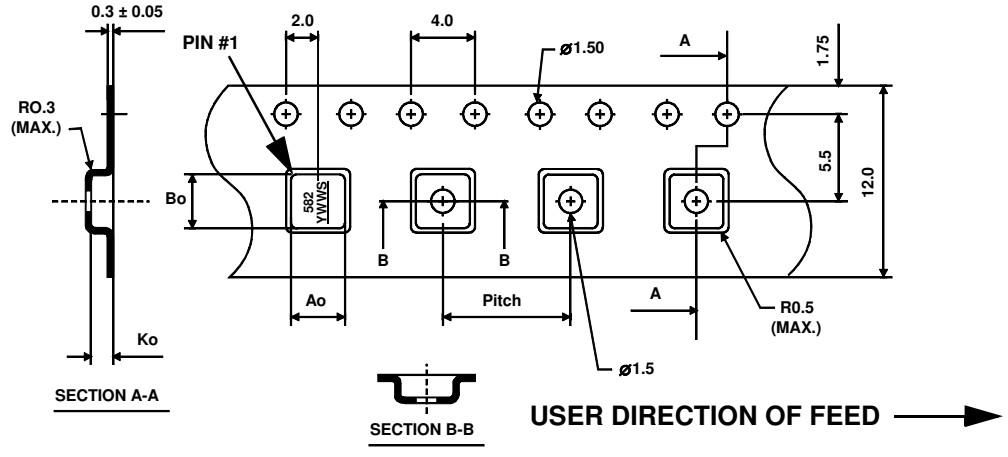


"B " Nominal Size	
Inches	**millimeters**
7	178
13	330



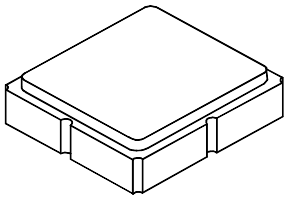
COMPONENT ORIENTATION and DIMENSIONS

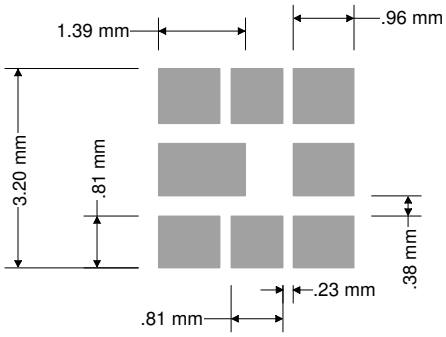
Carrier Tape Dimensions	
Ao	3.35 mm
Bo	3.35 mm
Ko	1.40 mm
Pitch	8.0 mm
W	12.0 mm



SM3030-8 Case

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





Foot Print Dimensions

Case Dimensions

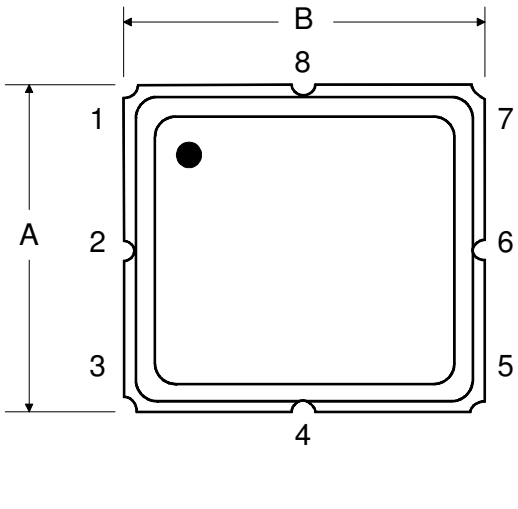
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.0	3.13	0.113	0.118	0.123
B	2.87	3.0	3.13	0.113	0.118	0.123
C	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
H	1.07	1.20	1.33	0.042	0.047	0.052

Electrical Connections

	Connection	Terminals
	Input	1
	Output	5
	Ground	All Others
Dot Indicates Pin 1		

Materials	
Solder Pad Termination	Au plating 30 - 60 µinches (76.2-152 µm) over 80-200 µinches (203-508 µm) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µinches Thick
Body	Al_2O_3 Ceramic
Pb Free	

TOP VIEW



BOTTOM VIEW