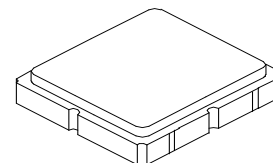


- Low-loss SAW Filter for Wimax Application
- 3.0 x 3.0mm Surface Mount Case
- 50 Ω Input/Output Impedance
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200 Qualified

RoHS
Compliant

SF2126E

**725.00 MHz
SAW Filter**



SM3030-8

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage on any Non-ground Terminal	3	V
Operable Temperature Range	-45 to +105	°C
Specification 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	

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

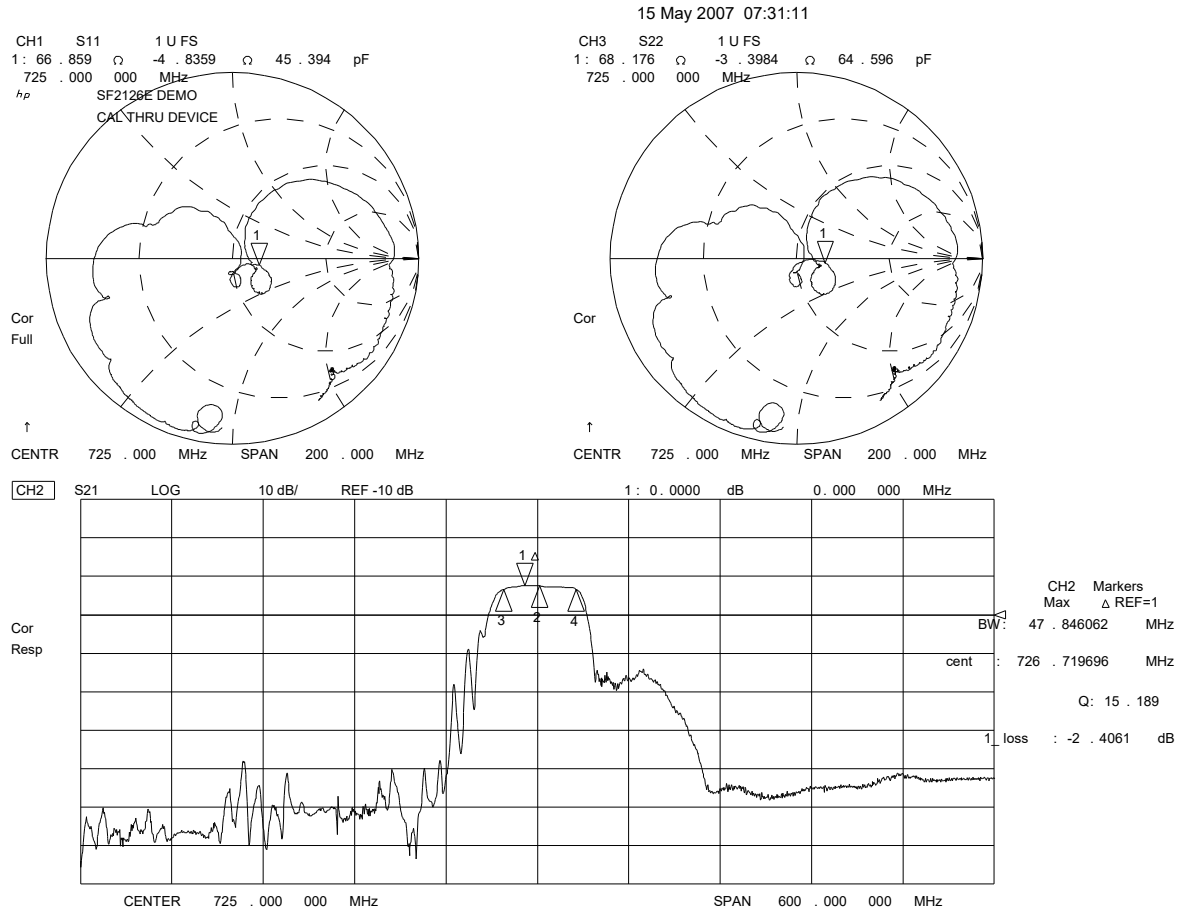


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

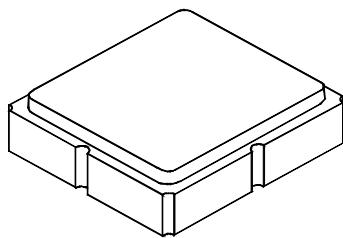
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics:

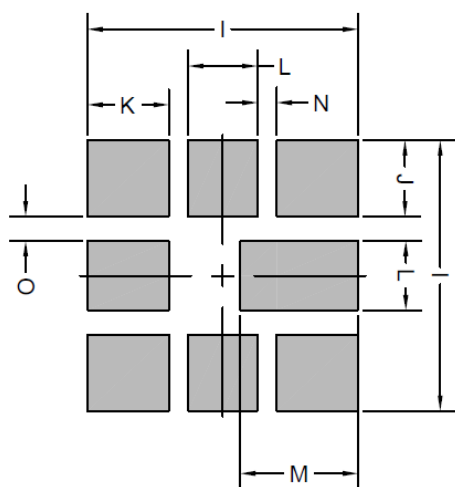


8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

Case and PCB Footprint Dimensions



Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.00	3.13	0.113	0.118	0.123
B	2.87	3.00	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		3.20			0.126	
J		0.90			0.035	
K		0.96			0.038	
L		0.82			0.032	
M		1.39			0.055	
N		0.23			0.009	
O		0.29			0.011	

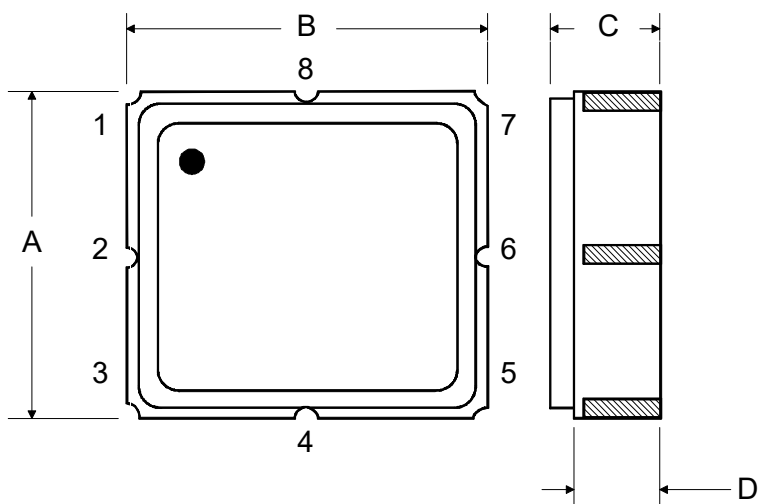


PCB Footprint Top View

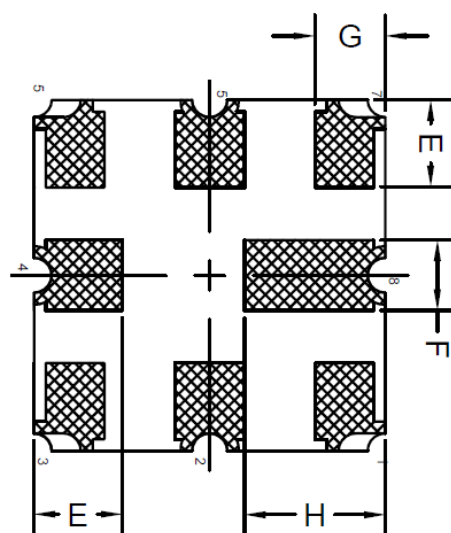
Case Materials

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

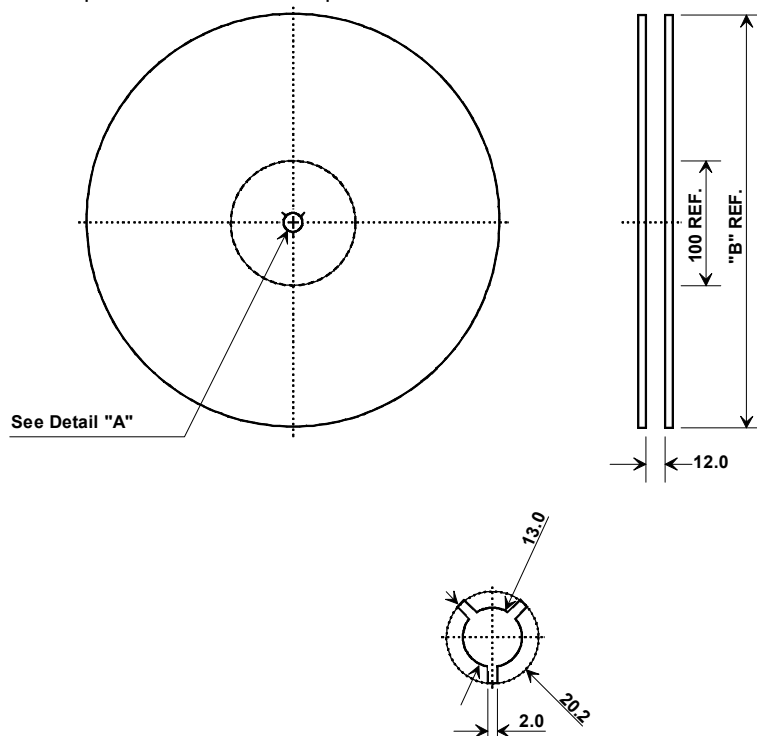


BOTTOM VIEW



Tape and Reel Specifications

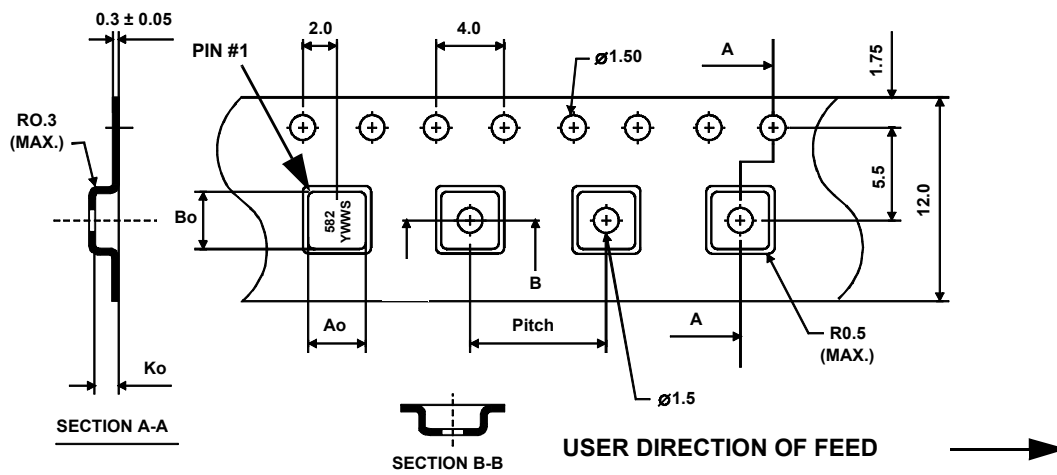
Tape and Reel Standard per ANSI/EIA-481



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

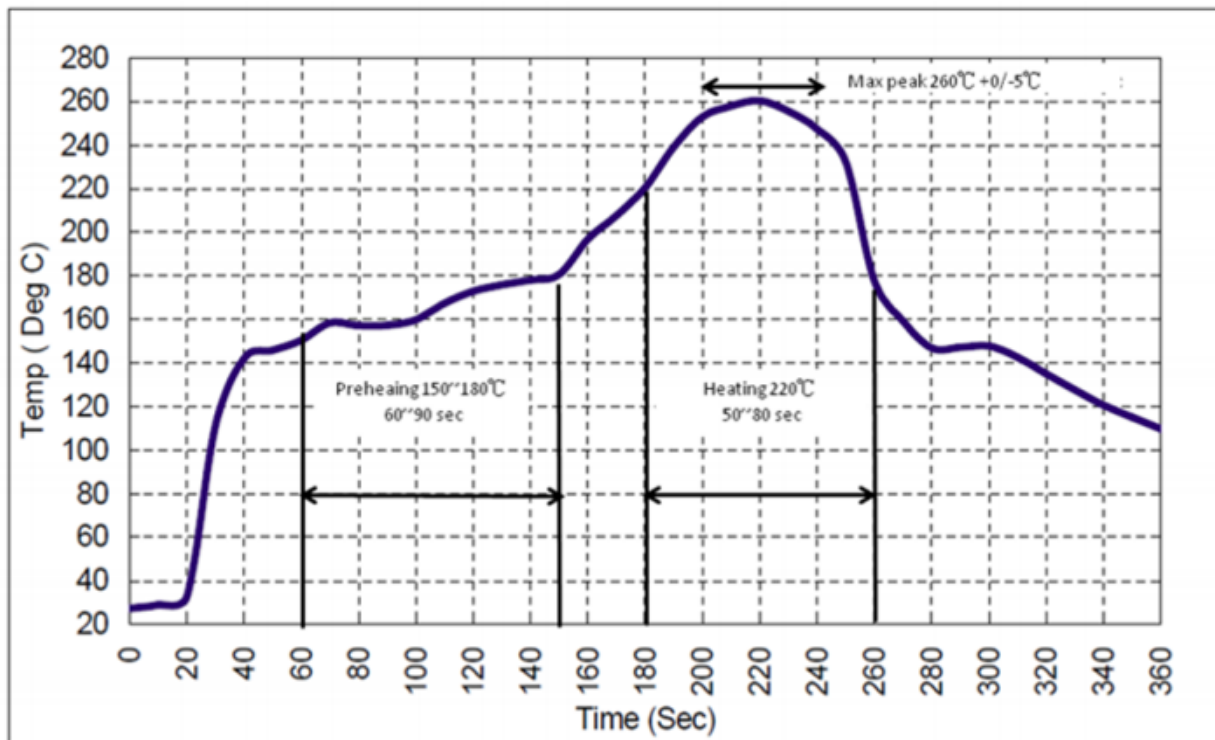
COMPONENT ORIENTATION and DIMENSIONS

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



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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