

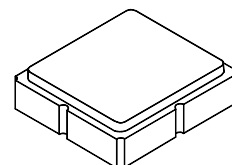
- RF SAW Filter, 2332.5 MHz, 25 MHz Bandwidth
- 3.0 x 3.0 x 1.4 mm Surface-mount Case
- Input/Output Impedance 50Ω/50Ω
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

Absolute Maximum Ratings

Rating	Value	Units
Incident Power in Passband	+10	dBm
Incident Power Out of Band	+27	dBm
DC Voltage on any Non-ground Terminal	3	VDC
Temperature Range for Specification	T = -40 to +85	°C
Operating Temperature Range	-40 to +105	°C
Component Storage Temperature Range	-40 to +125	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	265	°C

SF1224E-3

**2332.5 MHz
SAW Filter**

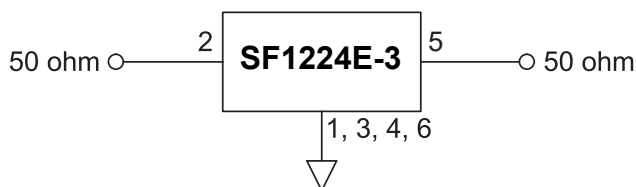


SM3030-6

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_c			2332.5		MHz
Maximum Insertion Loss, 2320.0 to 2345.0 MHz	IL			0.6	0.9	dB
Passband Ripple 2320.0 to 2345.0 MHz				0.2	0.5	
S11 & S22 VSWR 2320.0 to 2345.0 MHz				1.6	2.0	
Attenuation (Reference level from 0 dB)						dB
824 to 894 MHz			15	20		
1710 to 1755 MHz			16	18		
1850 to 1990 MHz			15	18		
2400 to 2415 MHz			15	17		
2415 to 2600 MHz			15	21		
Terminating Source impedance	Z_s			50		Ω
Terminating Load impedance	Z_L			50		Ω
Temp Coefficient				-36		ppm/k

Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Case Style	SM3030-6
Lid Symbolization (Y = Year WW = Week S= Shift)	A89, <u>YWWWS</u>



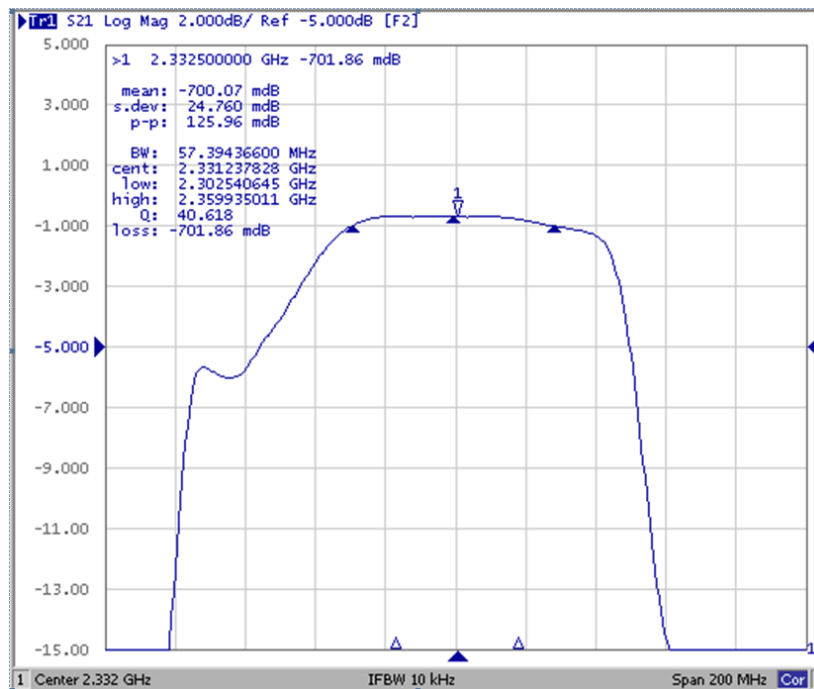
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

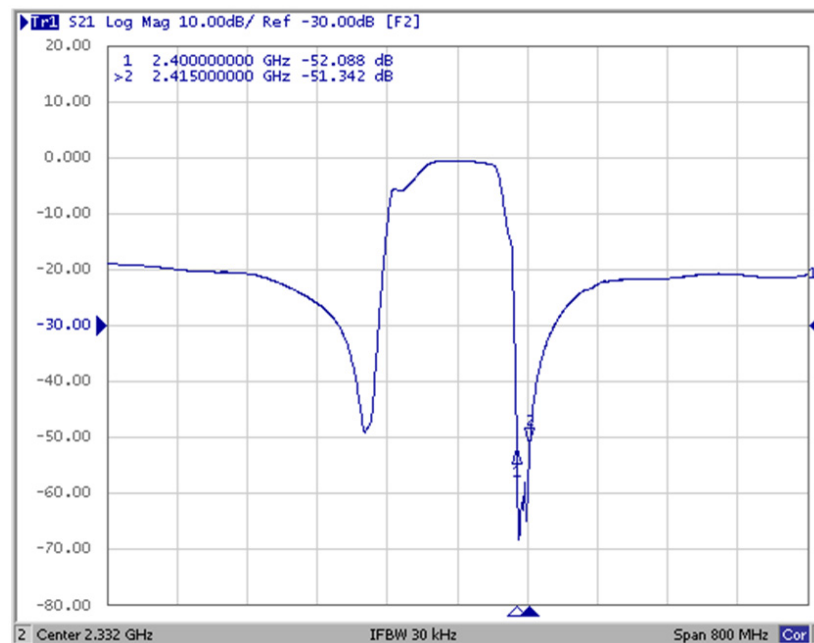
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics

Span - 200 MHz

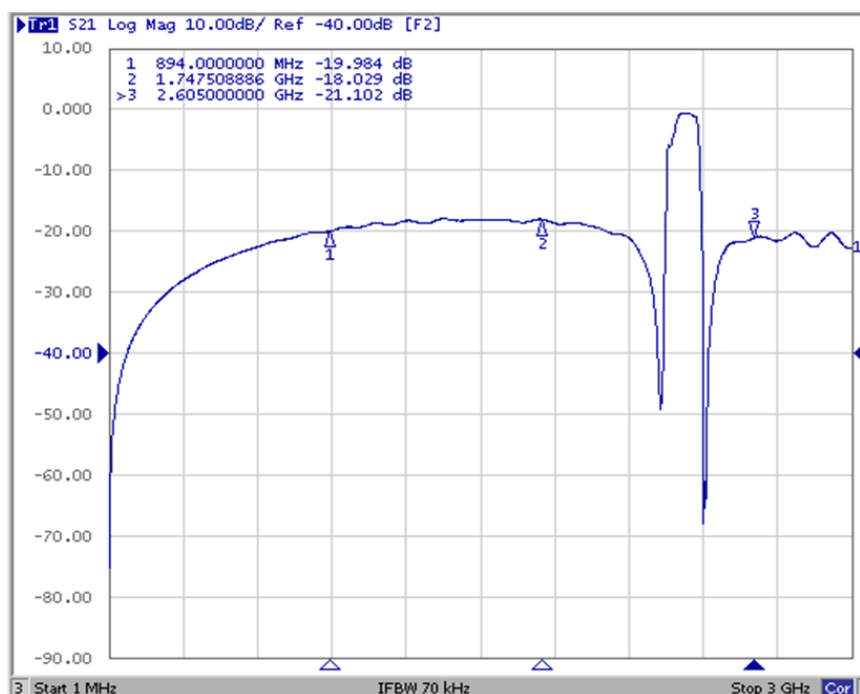


Span - 800 MHz

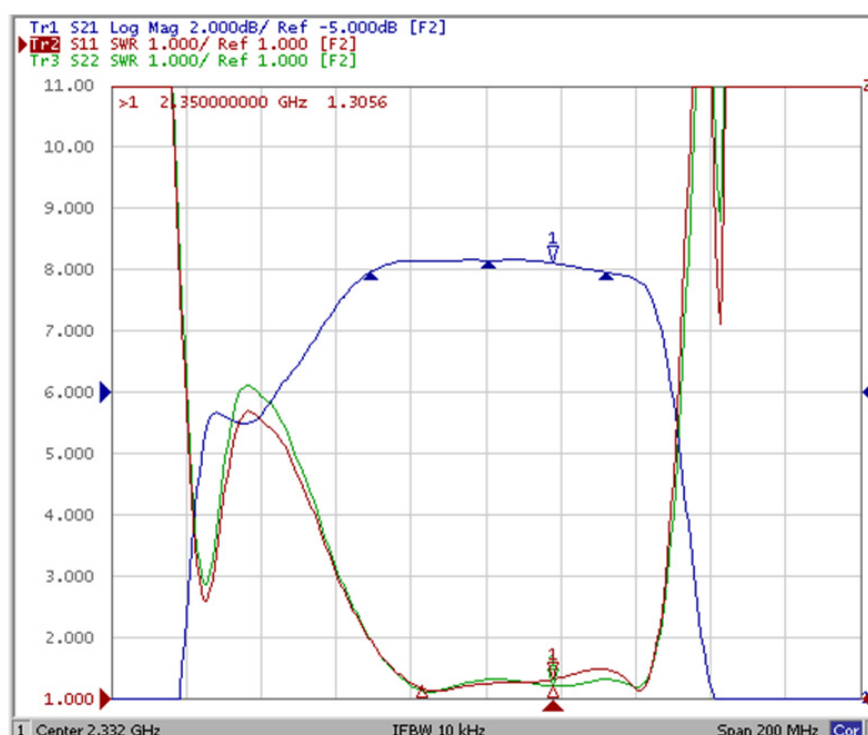


Frequency Characteristics

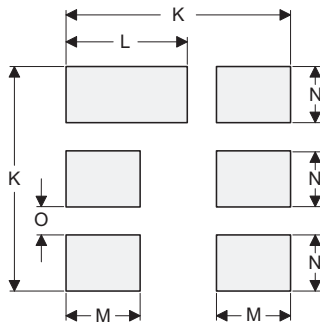
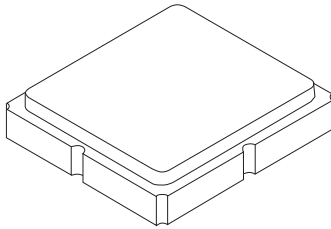
Span - 3000 MHz



Reflection Response - VSWR Span - 200 MHz



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



PCB Footprint Top View

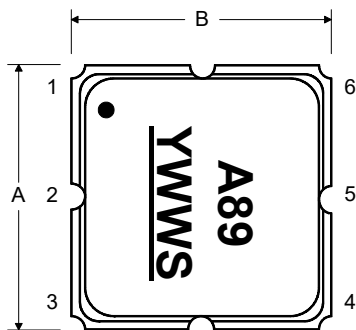
Case and PCB Footprint Dimensions

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	1.12	1.25	1.40	0.044	0.049	0.055
D	0.77	0.90	1.00	0.030	0.035	0.039
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
H	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056
K		3.20			0.126	
L		1.70			0.067	
M		0.96			0.037	
N		0.81			0.032	
O		0.38			0.015	

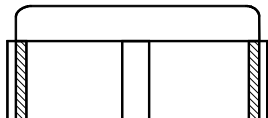
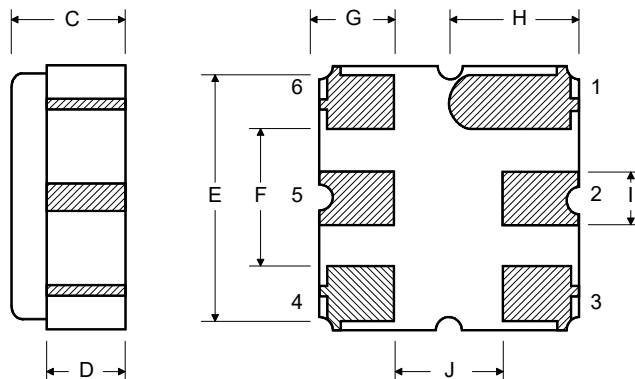
Case Materials

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

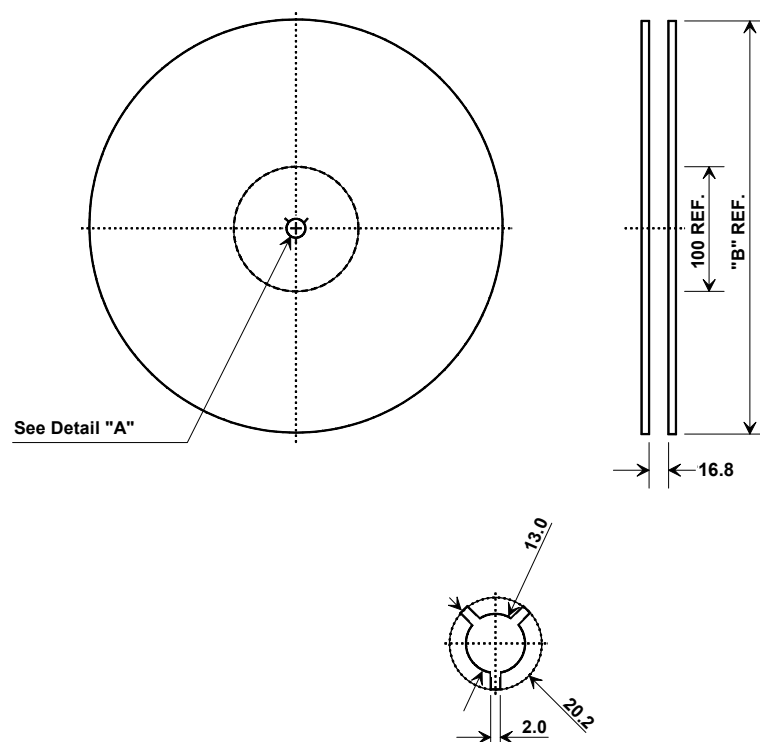
TOP VIEW



BOTTOM VIEW



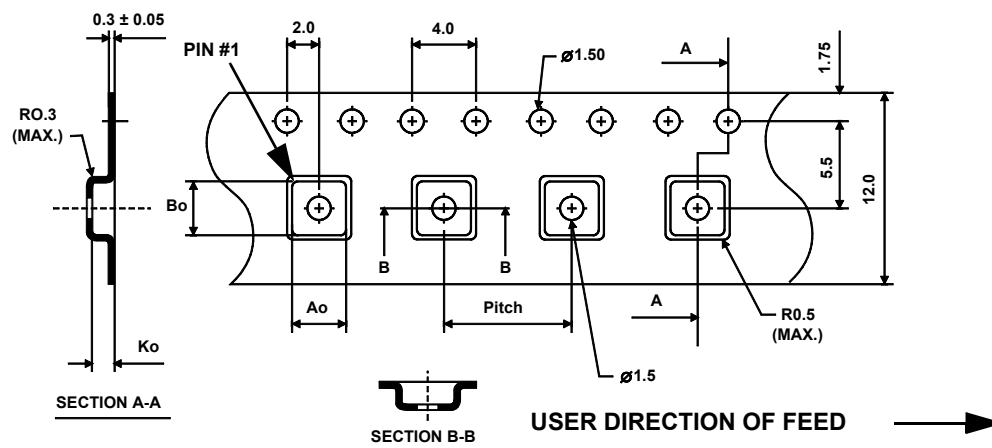
Tape and Reel Standard per ANSI/EIA-481



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

COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	3.30 mm
Bo	3.30 mm
Ko	1.60 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.

