



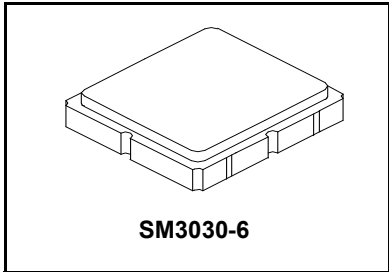
AEC-Q200
 This component was always
 RoHS compliant from the first
 date of manufacture.

- **Designed for Front-end GPS Applications**
- **Low Insertion Loss**
- **3.0 x 3.0 x 1.3 mm Surface-mount Case**
- **No Matching Circuit Required**
- **Complies with Directive 2002/95/EC (RoHS)**

RoHS
 Compliant

SF2434E

**1223 MHz
 SAW Filter**



Maximum Ratings at +25 °C Unless Stated Otherwise

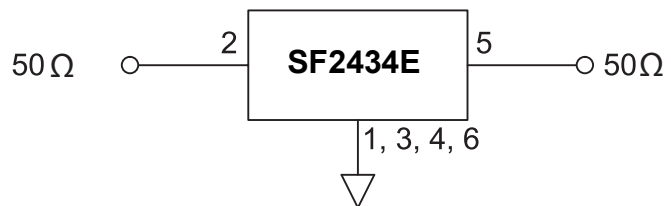
Rating	Value	Units
Maximum Input Power Level	+10	dBm
DC Voltage	3	Volts
Specification Temperature Range	-40 to +105	°C
Operable Temperature Range	-45 to +125	°C
Storage Temperature Range	-40 to +85	°C

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	Fc			1223		MHz
Maximum Insertion Loss (1196 to 1250 MHz)	IL			4.0	5.0	dB
Amplitude Ripple (1196 to 1250 MHz)				1.4	2.0	
Group Delay Ripple (1196 to 1250 MHz) (1226.577 to 1228.623 MHz) (1196.91 to 1217.37 MHz) (1242.426 to 1249.886 MHz)				8	15	ns
				1.0	5	
				3.0	5	
				2.0	5	
Attenuation Referenced to 0 dB: 1051 - 1151 MHz 1304 - 1354 MHz			15	20		dB
			15	28		
				-36		
Lid Symbolization (Y=year, WW=week, S=shift), dot = Pin 1 Indicator			8Q, YWWS			

Electrical Connections

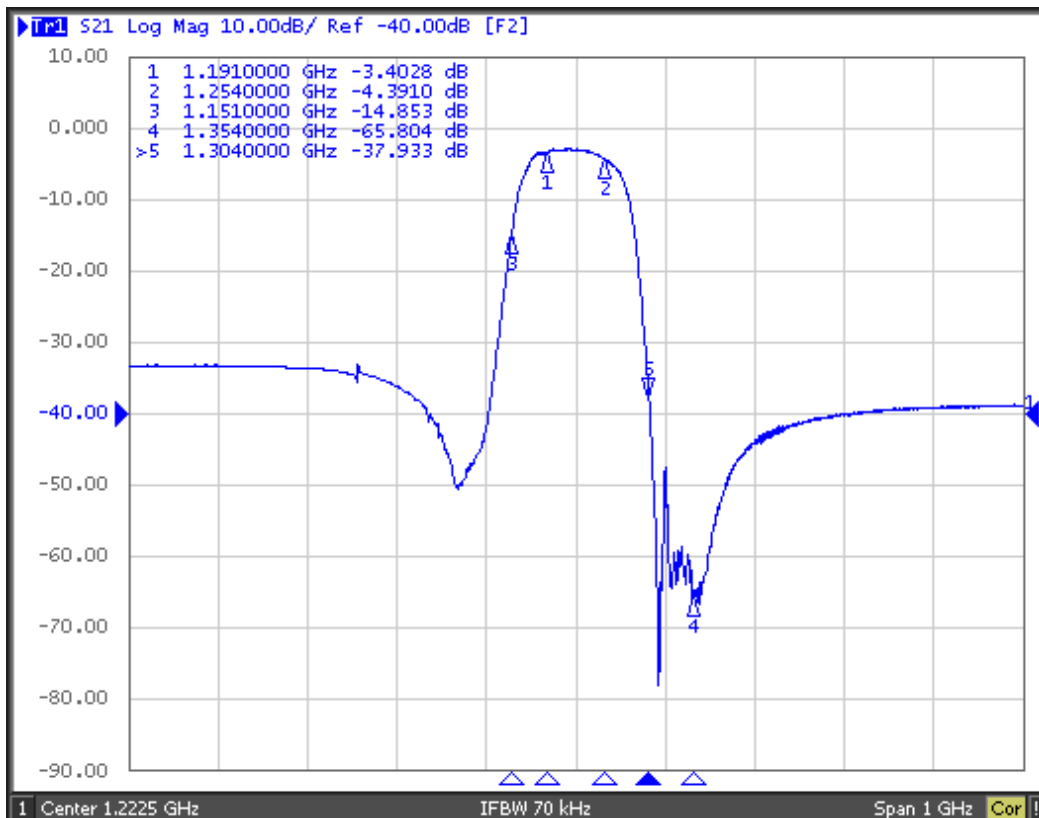
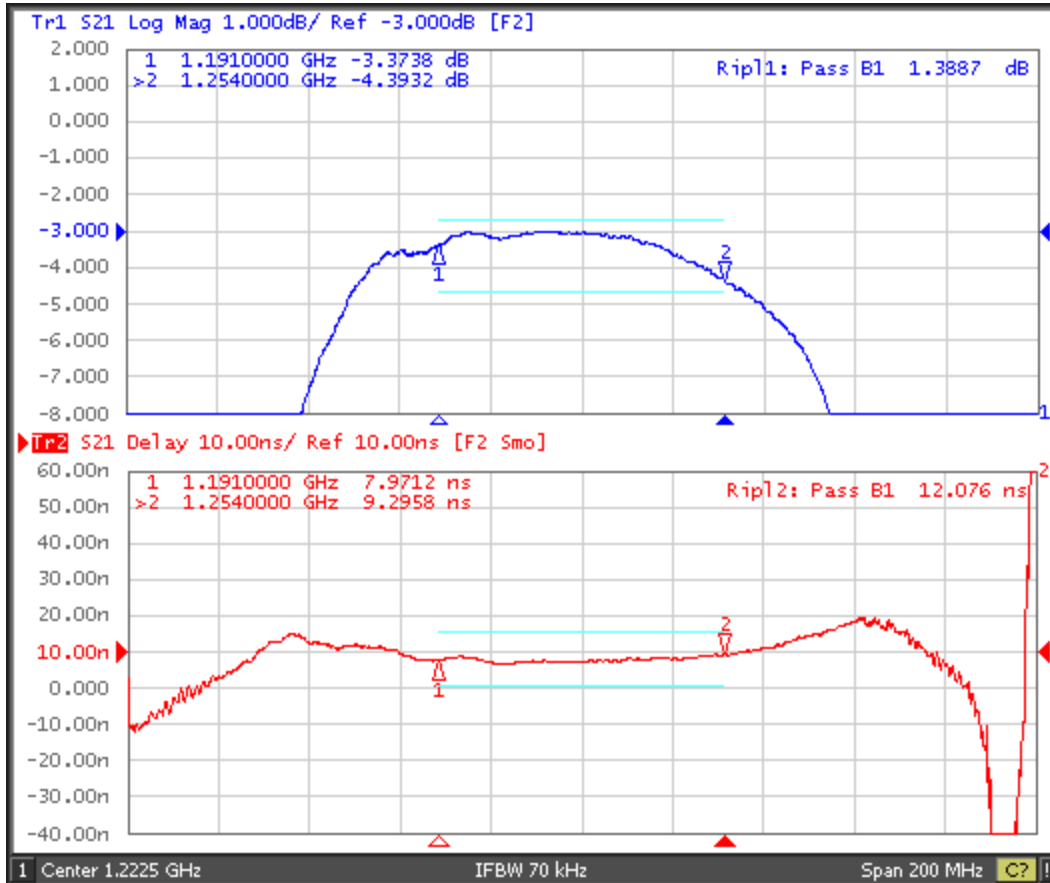
Pin #	Description	Pin #	Description
1	Ground	4	Ground
2	Input	5	Output
3	Ground	6	Ground



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.

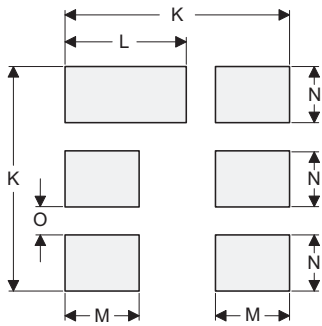
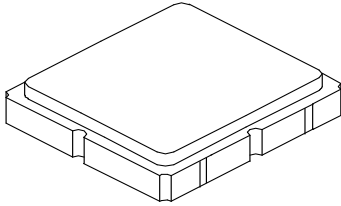
Frequency Characteristics



SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case

3.0 X 3.0 mm Nominal Footprint



PCB Land Pattern
Top View

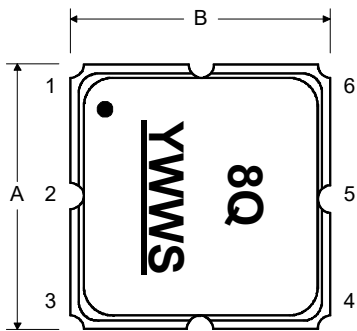
Case and PCB Footprint Dimensions

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	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
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		1.05			0.041	
N		0.81			0.032	
O		0.38			0.015	

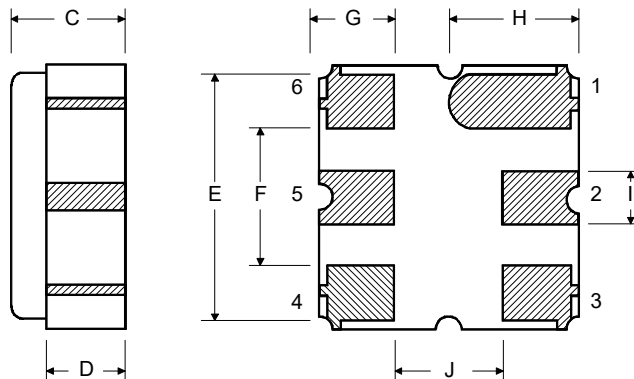
Case Materials

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

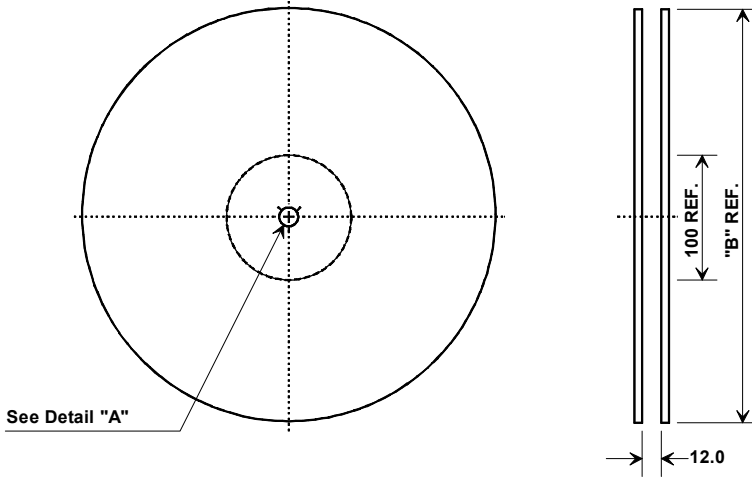


BOTTOM VIEW

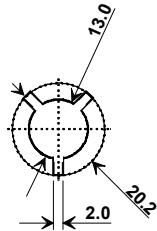


Tape and Reel Specifications

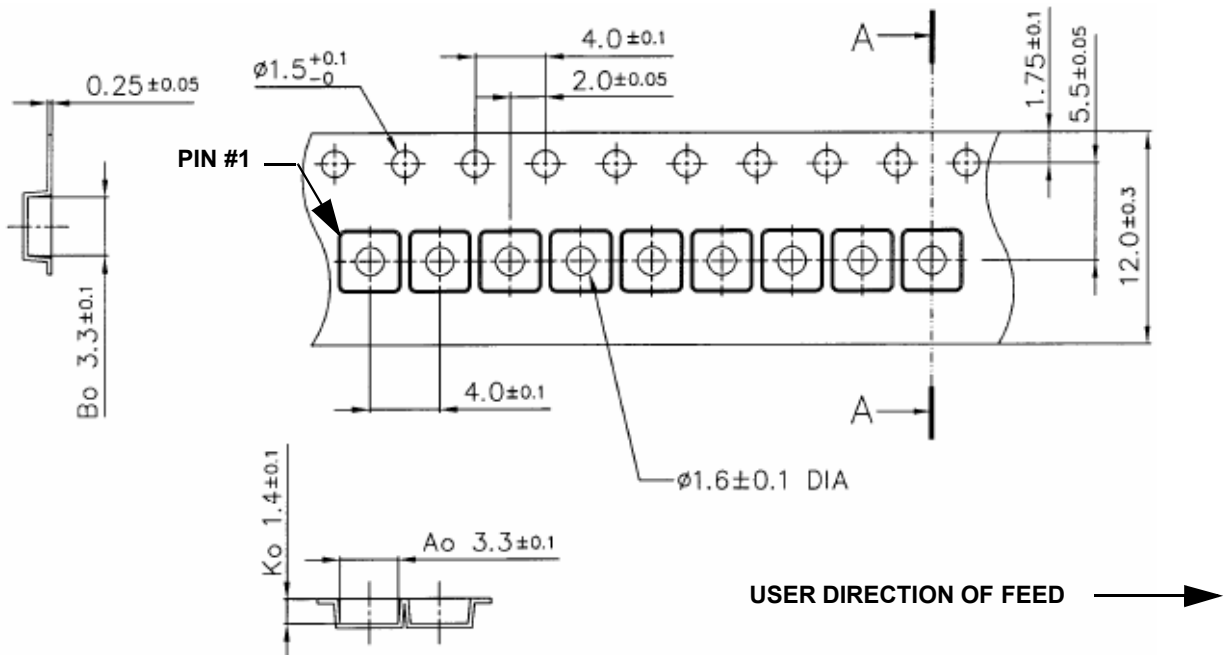
Tape and Reel Standard per ANSI/EIA-481



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



COMPONENT ORIENTATION



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.

