



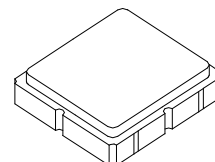
AEC-Q200

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

- *Steep Roll-off Filter for 433.92 MHz Unlicensed Band*
- *No Matching Required for Operation in 50Ω Environment*
- *Complies with Directive 2002/95/EC (RoHS)*

**Absolute Maximum Ratings**

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 Cycles/10 seconds Maximum	265	°C

SF2136E**433.92 MHz
SAW Filter****SM3030-6****Electrical Characteristics**

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_C			433.92		MHz
3 dB Bandwidth				5		MHz
Insertion Loss, 433.05 to 434.79 MHz	IL			2.0	3.3	dB
Amplitude Ripple, p-p, 433.05 to 434.79 MHz				0.3	1.5	
Attenuation Referenced to 0 dB:						
389.0 to 392.0 MHz			42	54		
411.0 to 414.0 MHz			40	50		
454.0 to 457.0 MHz			40	51		
475.0 to 478.5 MHz			42	52		
863.0 to 870.0 MHz			41	35		
Source Impedance	Z_S			50		Ω
Load Impedance	Z_L			50		Ω

Case Style	SM3030-6 3.0 x 3.0 mm Nominal Footprint					
Lid Symbolization, Y=year, WW=week, S=shift, Dot=pin 1 indicator	682, YWWS					
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel				
	Reel Size 13 Inch	3000 Pieces/Reel				

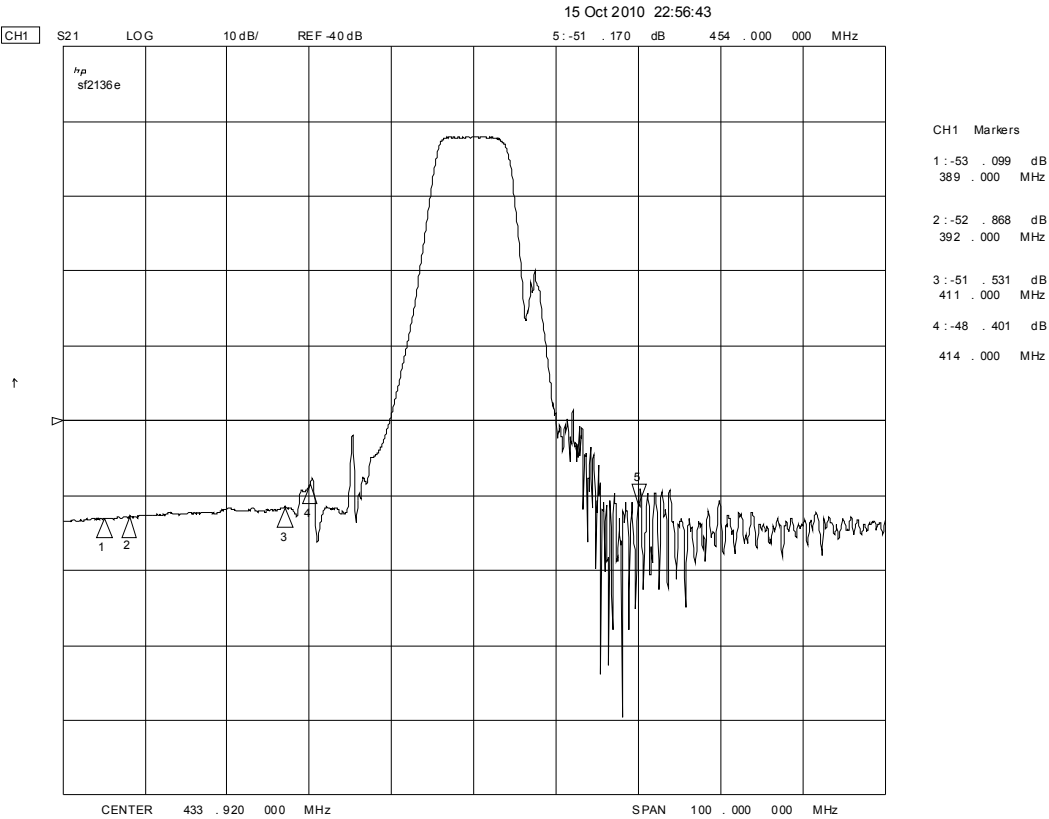
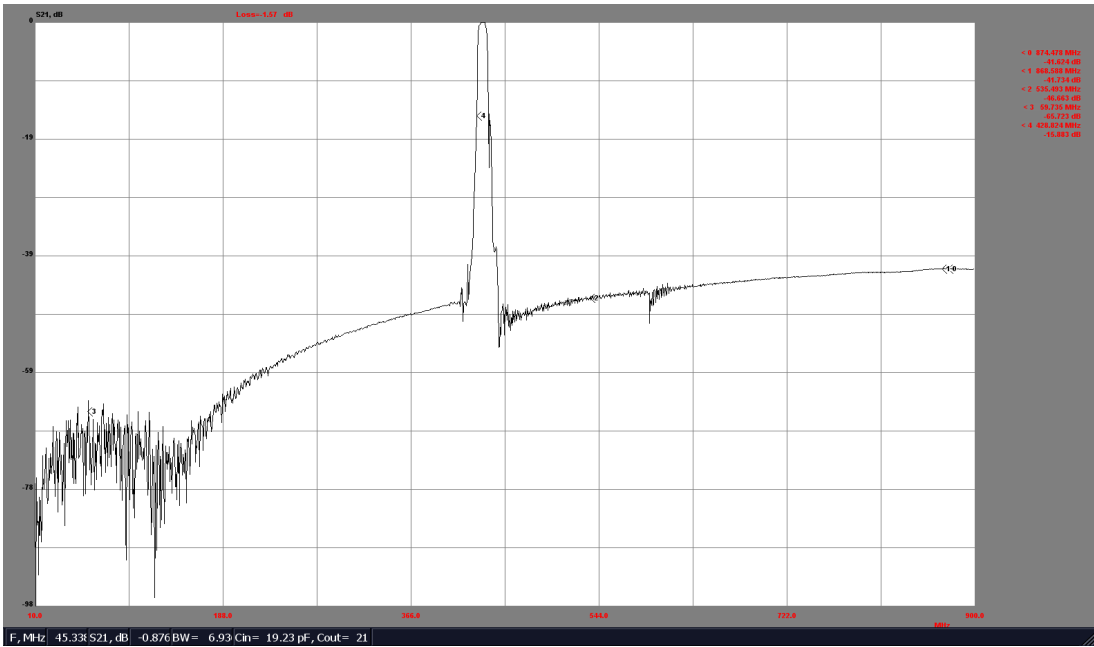
Electrical Connections

Connection	Terminals
Input	2
Output	5
Case Ground	All others

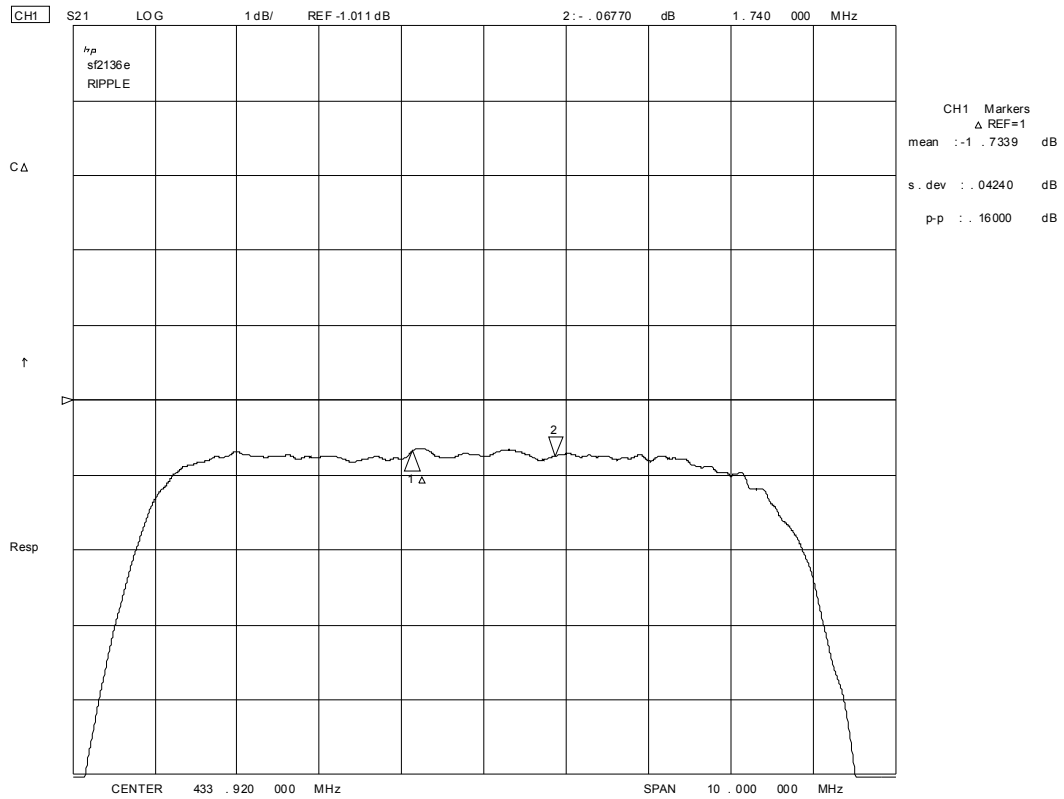
**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.****NOTES:**

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.

SF2136E Frequency Response Plots

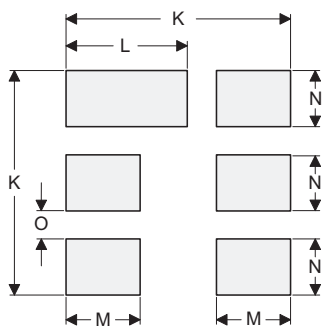
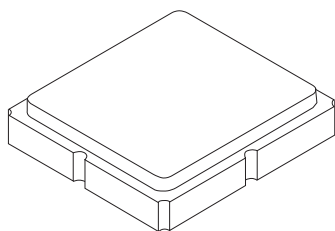


15 Oct 2010 22:59:11



SM3030-6 Case

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



PCB Footprint Top View

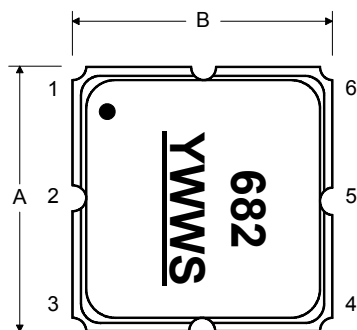
Case and PCB Footprint Dimensions

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	1.30	0.044	0.049	0.051
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	

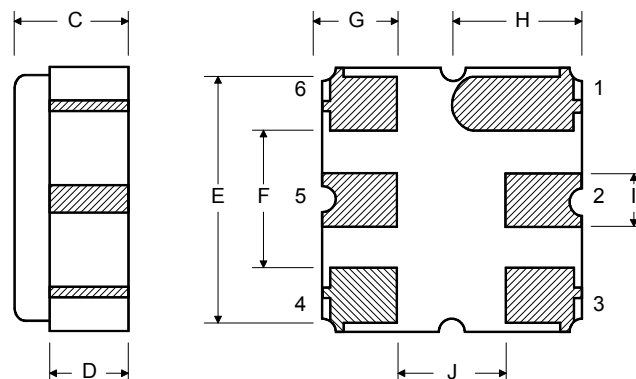
Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 μ m Gold over 1.27 to 8.89 μ m Nickel
Lid Plating	2.0 to 3.0 μ m Nickel
Body	Al ₂ O ₃ Ceramic
Pb Free	

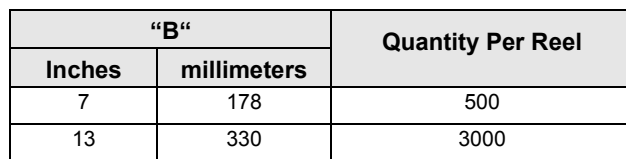
Top View



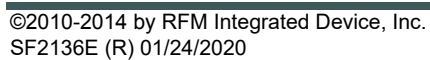
Bottom View



Tape and Reel Standard per ANSI/EIA-481

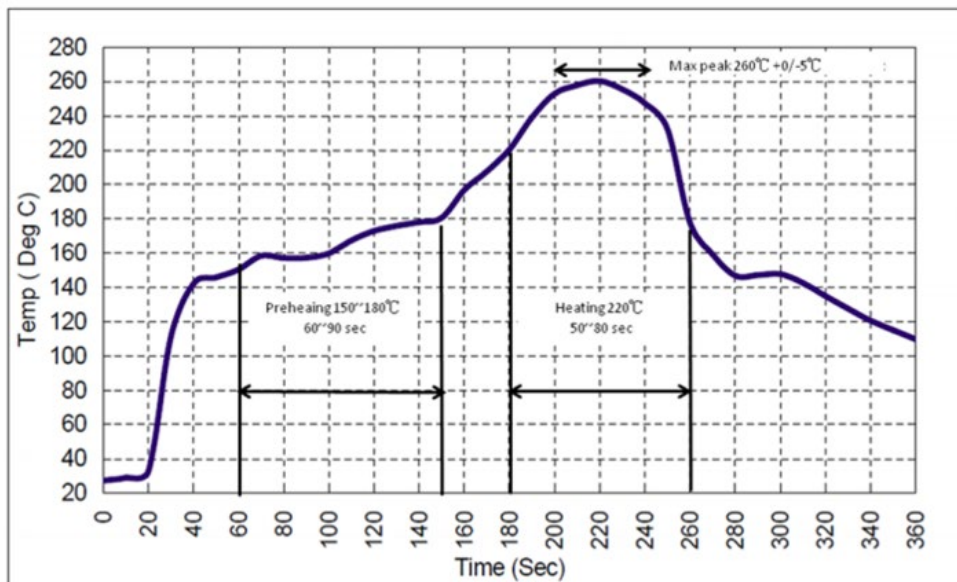


Carrier Tape Dimensions	
Ao	3.35 mm
Bo	3.35 mm
Ko	1.40 mm
Pitch	8.0 mm
W	12.0 mm



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.



Mouser Electronics

Authorized Distributor

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

[RFMi:](#)

[SF2136E](#)