



AEC-Q200

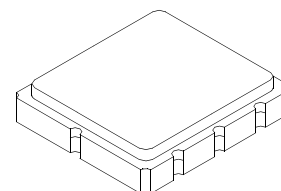
This component was always RoHS compliant from the first date of manufacture.

- 402 to 405 MHz Medical Band Front-end Filter
- Single-ended Input/Output Operation
- Complies with Directive 2002/95/EC (RoHS)
- Tape and Reel Standard per ANSI/EIA-481



RF3619D

**404.0 MHz
SAW Filter**



**SM3838-8 Case
3.8 x 3.8**

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+10	dBm
DC Voltage on any Non-ground Pin	3	V
Operating Temperature Range	-10 to +60	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Solder Reflow Temperature, 10 seconds, 5 cycles maximum	260	°C

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25 °C	f_c			404.0		MHz
Insertion Loss	IL_{MIN}			2.1	2.3	dB
Passband Ripple, 402-405 MHz				0.6	0.8	dB
3 dB Bandwidth	BW_3		5.0	6.0		MHz
Attenuation relative to IL_{MIN} :						dB
398.5 MHz			30	35		
408.5 MHz			25	45		
383.5 MHz			40	50		
423.5 MHz			38	48		
Freq. Temp. Coefficient	FTC			-37		ppm/k
Frequency Aging, First Year	fA			≤10		ppm
Single-ended Input/Output Impedance Match				50		ohms
Differential Input/Output Impedance Match				150		ohms
Lid Symbolization (Y=year WW=week S=shift)	A15, YWWS					
Standard Reel Quantity	Reel Size 7 Inch			500 Pieces/Reel		
	Reel Size 13 Inch			3000 Pieces/Reel		

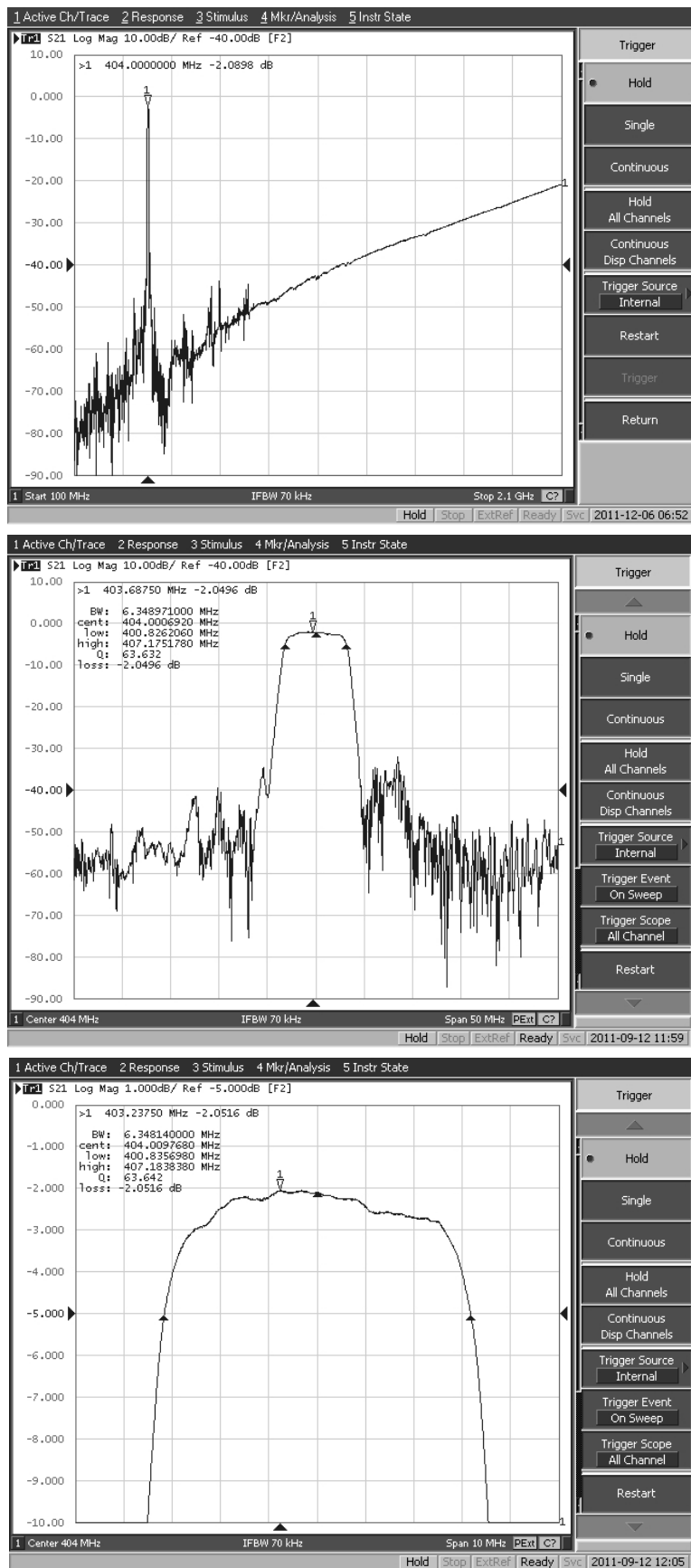


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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

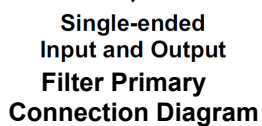
Filter Response Plots





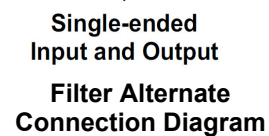
Pin	Connection
1	Ground
2	Ground
3	Input
4	Ground
5	Ground
6	Ground
7	Output
8	Ground

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	3.6	3.8	4.0	0.14	0.15	0.16
B	3.6	3.8	4.0	0.14	0.15	0.16
C	1.00	1.20	1.40	0.04	0.05	0.055
D	0.95	1.10	1.25	0.033	0.043	0.05
E	0.90	1.0	1.10	0.035	0.04	0.043
F	0.50	0.6	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69	0.090	0.100	0.110
H	1.40	1.75	2.05	0.055	0.069	0.080



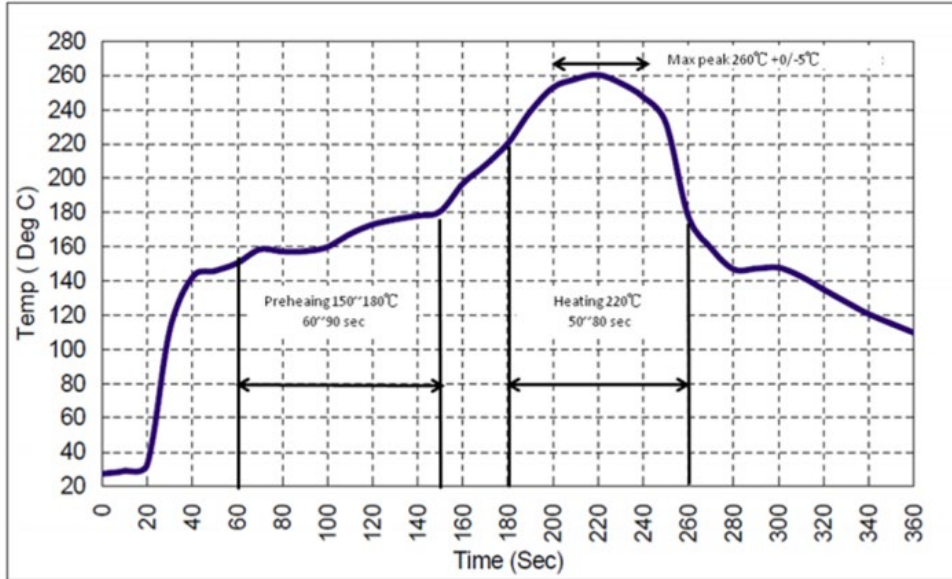
Filter Alternate Electrical Connections

Pin	Connection
1	Ground
2	Input
3	Ground
4	Ground
5	Ground
6	Output
7	Ground
8	Ground



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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