

RF3619D

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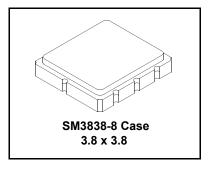
- 402 to 405 MHz Medical Band Front-end Filter
- Single-ended Input/Outout Operation
- Complies with Directive 2002/95/EC (RoHS)



404.0 MHz SAW Filter

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



Electrical Characteristics

Characteristic			Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25 °C			1, 2, 3		404.0		MHz
Insertion Loss			1, 3		2.1	2.3	dB
Passband Ripple, 402-405 MHz			1, 3		0.6	0.8	dB
3 dB Bandwidth			1	5.0	6.0		MHz
Attenuation relative to IL _{MIN} :							
398.5 MHz			1, 3	30	35		dB
408.5 MHz				25	45		
383.5 MHz				40	50		
423.5 MHz	23.5 MHz			38	48		
Freq. Temp. Coefficient		FTC			-37		ppm/k
Frequency Aging, First Year		fA	5		≤10		ppm
Single-ended Input/Output Impedance Match			1		50		ohms
Differential Input/Output Impedance Match			1		150		ohms
Lid Symbolization (Y=year WW=week S=shift)		A15, YWWS					
Standard Reel Quantity	Reel Size 7 Inch	9		500 Pieces/Reel			
	Reel Size 13 Inch			eel			

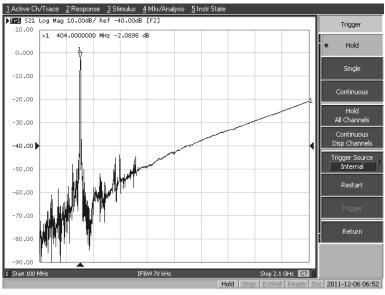


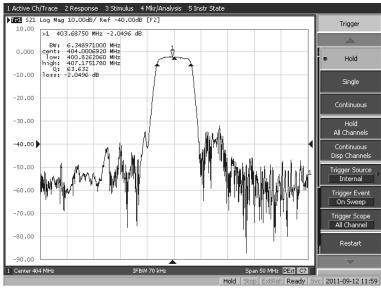
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

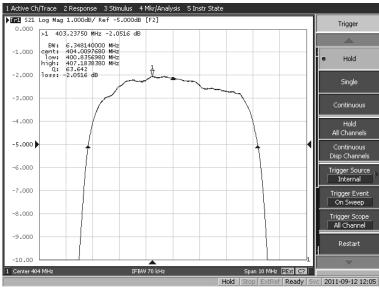
Notes:

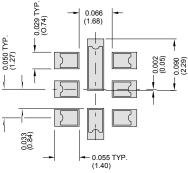
- 1. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture which is connected to a 50 Ω test system.
- 2. The frequency f_c is defined as the midpoint between the 3 dB frequencies.
- 3. Where noted specifications apply over the entire specified operating temperature range of -10 °C to +60 °C.
- 4. Frequency aging is the change in fc with time and is specified at +65 °C or less. Aging may exceed the specification for prolonged temperatures above +65 °C. Typically, aging is greatest the first year after manufacture, decreasing significantly in subsequent years.
- 5. The design, manufacturing process, and specifications of this device are subject to change.
- 6. One or more of the following U.S. Patents apply: 4,54,488, 4,616,197, and others pending.
- 7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 8. Tape and Reel Standard Per ANSI / EIA 481.
- 9. This product complies with Directive 2002/95/EC of the European Parlament and of the Council of 27 January 2003 on the restriction of the use of certain hazadous substances in electrical and electronic equipment.

Filter Response Plots





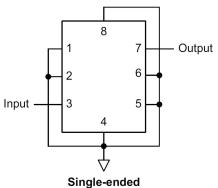




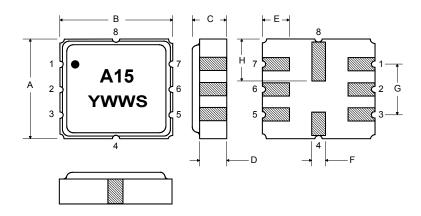
PCB Land Pattern

Filter Primary Electrical Connections

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



Input and Output
Filter Primary
Connection Diagram

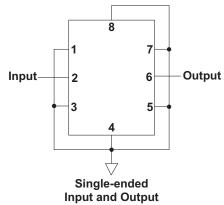


Case Dimensions

Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	3.6	3.8	4.0	0.14	0.15	0.16	
В	3.6	3.8	4.0	0.14	0.15	0.16	
С	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	
Н	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



Input and Output
Filter Alternate
Connection Diagram