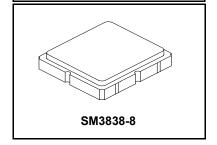




RFM products are now Murata products.

RF3608D

426.4 MHz **SAW Filter**



418.00 to 434.79 MHz Filter

- Optimized for use with the TRC105 Transceiver
- · Balanced 150 ohm IC Interface
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage	±5	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			426.4		MHz
1 dB Bandwidth	BW ₁			19.5		MHz
Maximum Insertion Loss, 418.00 to 434.79 MHz	IL _{MAX}			1.8	2.8	
Amplitude Ripple, p-p, 418 to 434.79 MHz					1.0	
Rejection Referenced to Insertion Loss at 433.00 MHz:						
DC to 406 MHz			40	43		dB
456 to 470 MHz			33	36		- ab
470 to 870 MHz			40	43		1
870 to 1300 MHz			37	40		
1300 to 1735 MHz			29	32		
1735 to 2000 MHz			24	27		
Source Impedance	Z _S			50		Ω
Balanced Load Impedance	Z _L			150		Ω

Case Style	SM3838-8 3.8 x 3.8 mm Nominal Footprint	
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	891, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

Electrical Connections

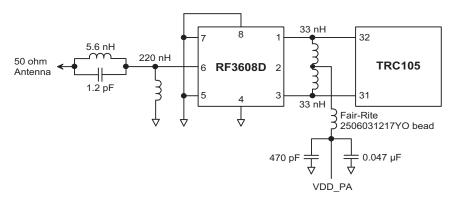
Connection	Terminals
Single-ended Port	6
Balanced Port	1, 3
Case Ground	4, 5, 7, 8
No Connection	2

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

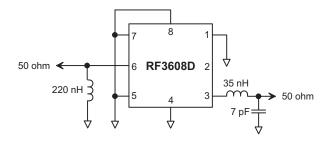
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
- The design, manufacturing process, and specifications of this filter are subject to change.
- US and international patents may apply.

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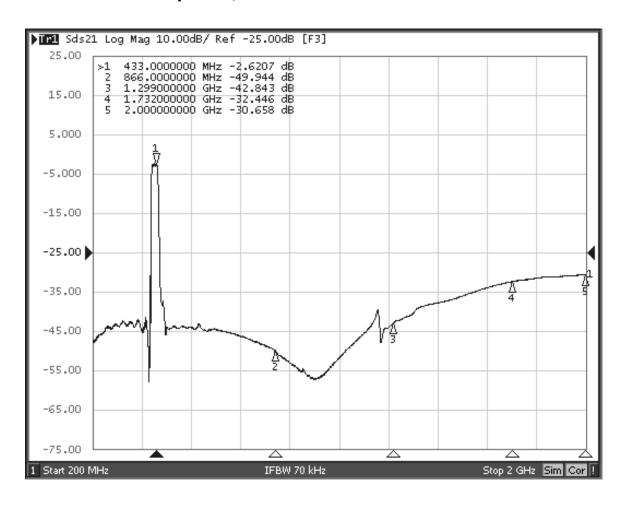
RF3608D-TRC105 Application Circuit



RF3608D 50 Ohm Tuning Network



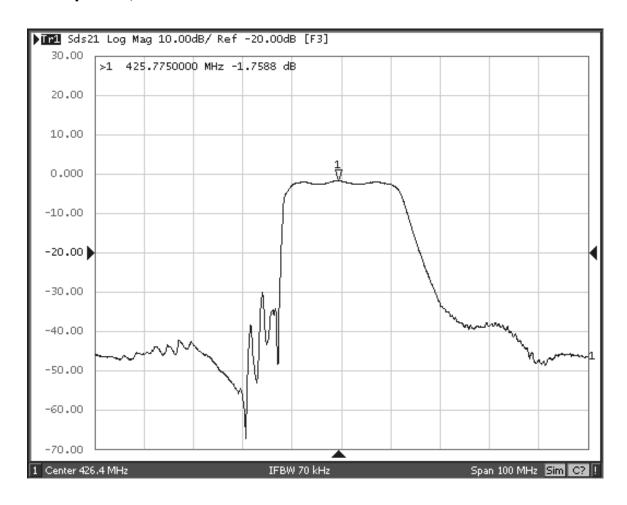
RF3608D Broadband Response, 200 to 2000 MHz



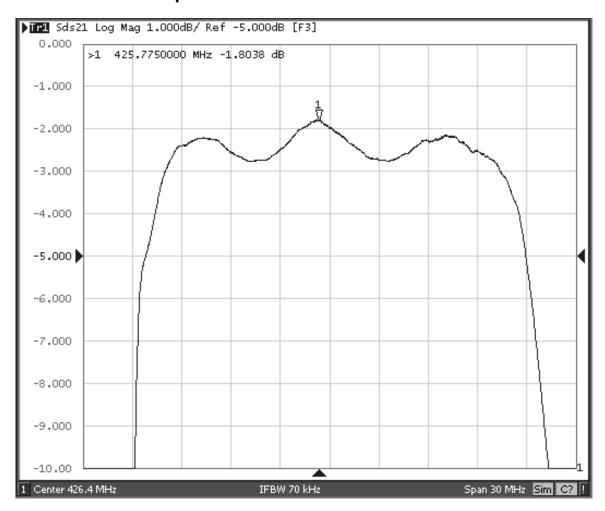
RF3608D Response, 326.4 to 526.4 MHz



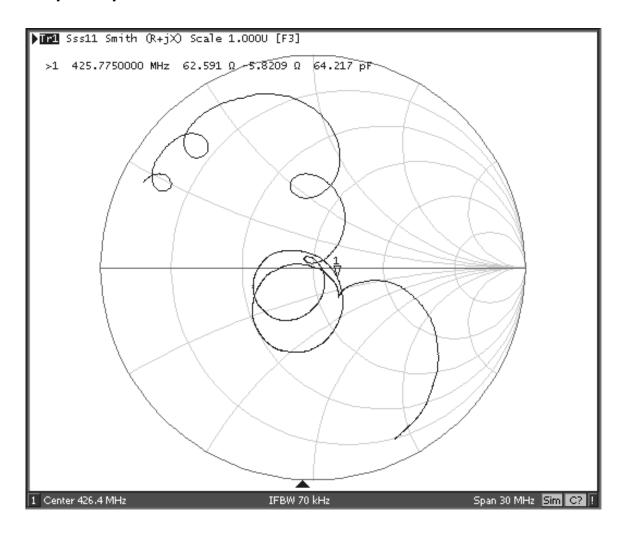
RF3608D Response, 376.4 to 476.4 MHz



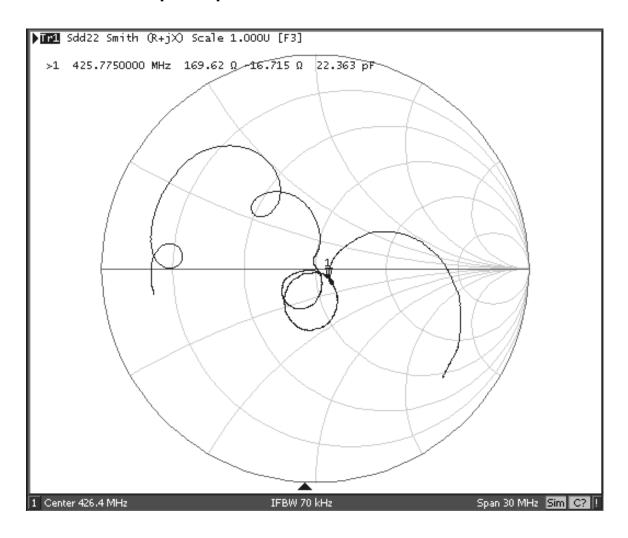
RF3608D Passband Response



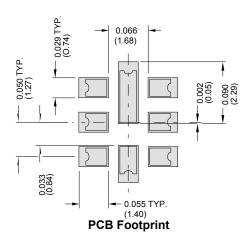
RF3608D Input Impedance Plot



RF3608D Balanced Output Impedance Plot

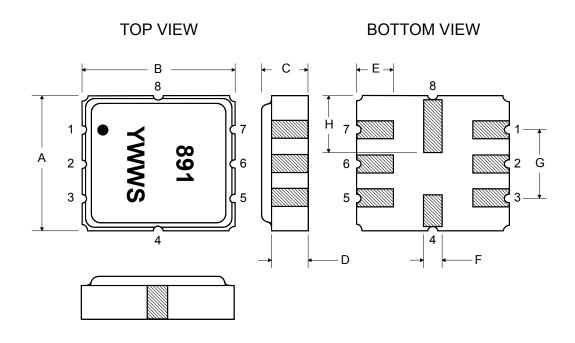


8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint

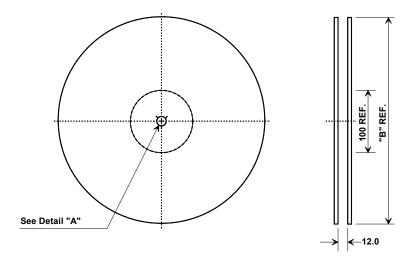


Case Dimensions						
Dimension	mm		Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	3.6	3.8	4.0	0.142	0.150	0.157
В	3.6	3.8	4.0	0.142	0.150	0.157
С	0.90	1.00	1.1	0.035	0.040	0.043
D	0.80	0.90	1.0	0.031	0.035	0.040
E	0.90	1.00	1.10	0.035	0.040	0.043
F	0.50	0.60	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69	0.090	0.100	0.110
Н	1.40	1.75	2.05	0.055	0.069	0.080

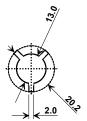
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications

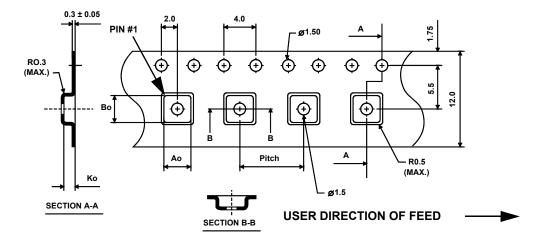


"B " Nominal Size		Quantity Per Reel		
Inches	millimeters			
7	178	500		
13	330	3000		



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ao	4.25 mm			
Во	4.25 mm			
Ко	1.30 mm			
Pitch	8.0 mm			
W	12.0 mm			



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