

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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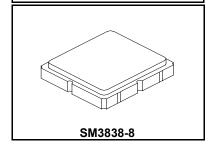




RFM products are now Murata products.

RF3605D

372.25 MHz **SAW Filter**



• 364.25 to 380.25 MHz Filter

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

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			372.25		MHz
1 dB Bandwidth	BW ₁			16		MHz
Maximum Insertion Loss, 364.25 to 380.25 MHz	IL _{MAX}			1.5	2.0	
Amplitude Ripple, p-p, 364.25 to 380.25 MHz				1.0		
Rejection Referenced to Insertion Loss at 372.25 MHz:						
DC to 335 MHz			27	30		40
390 to 500 MHz			25	30		dB
500 to 900 MHz			36	39		
900 to 1300 MHz			44	47		
1300 to 2000 MHz			37	40		
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	888, 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



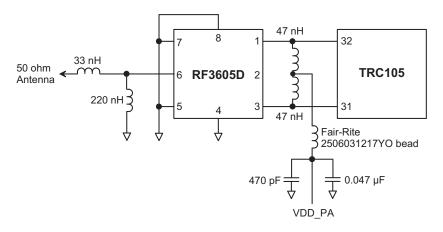
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance
- Unless noted otherwise, all specifications apply over the operating temperature range with finite soldered to the specified denorstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.

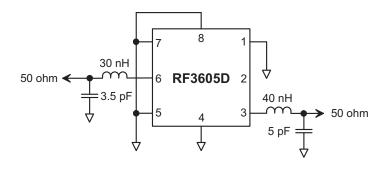
 Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

 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.
- Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

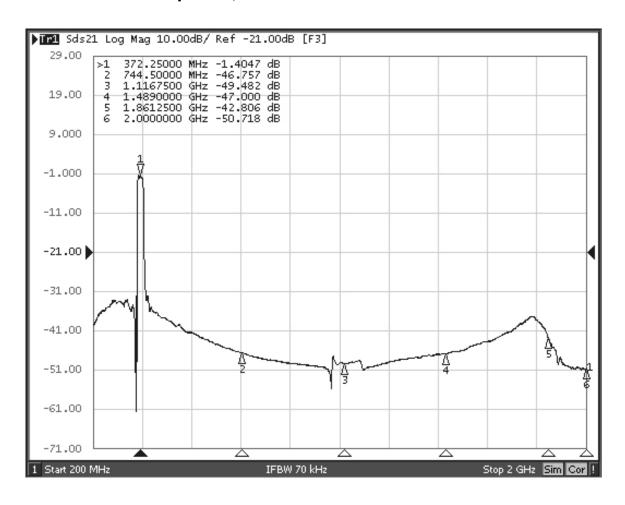
RF3605D-TRC105 Application Circuit



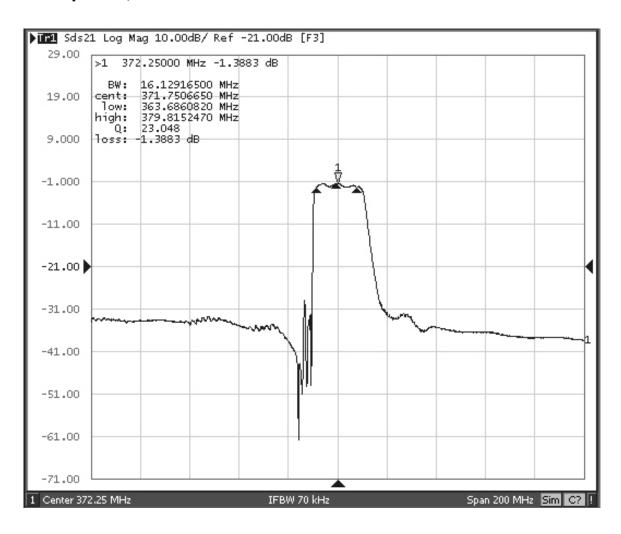
RF3605D 50 Ohm Tuning Network



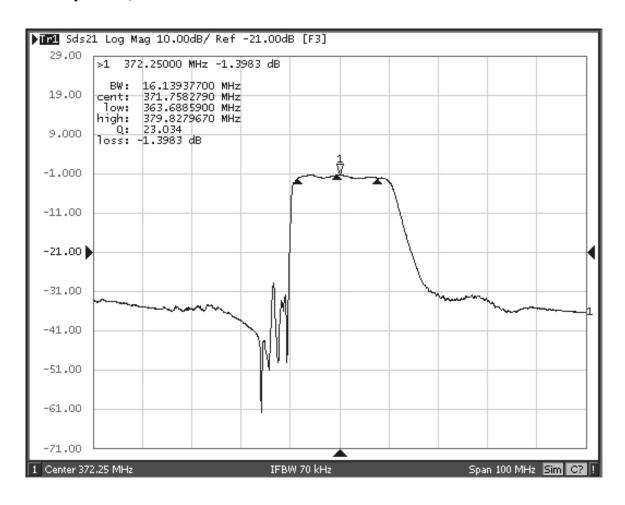
RF3605D Broadband Response, 200 to 2000 MHz



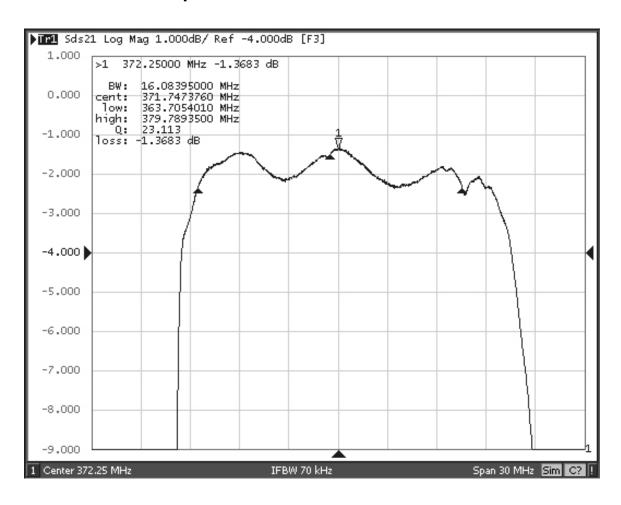
RF3605D Response, 272.25 to 472.25 MHz



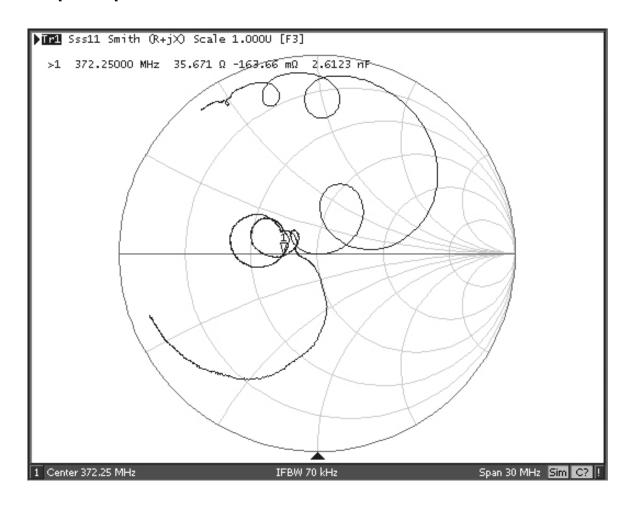
RF3605D Response, 322.25 to 422.25 MHz



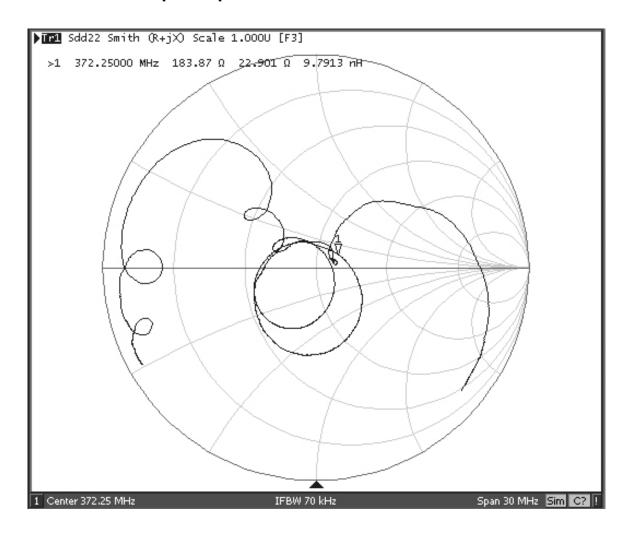
RF3605D Passband Response



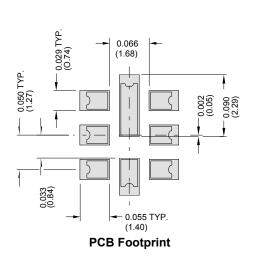
RF3605D Input Impedance Plot



RF3605D Balanced Output Impedance Plot

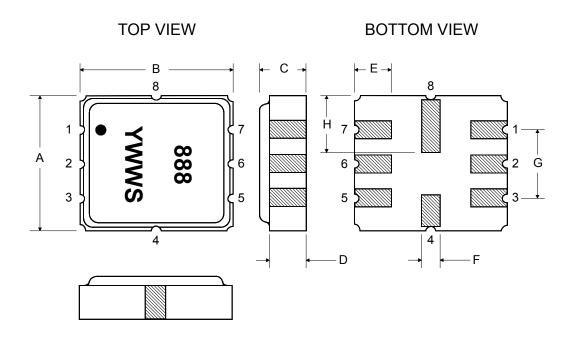


8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint

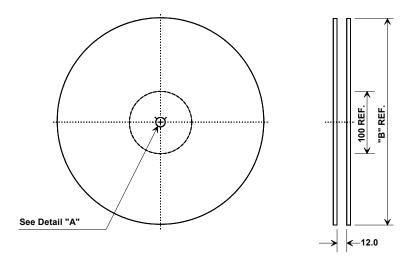


Case Dimensions						
Dimension	mm		Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	3.6	3.8	4.0	0.142	0.150	0.157
В	3.6	3.8	4.0	0.142	0.150	0.157
С	0.90	1.00	1.1	0.035	0.040	0.043
D	0.80	0.90	1.0	0.031	0.035	0.040
E	0.90	1.00	1.10	0.035	0.040	0.043
F	0.50	0.60	0.70	0.020	0.024	0.028
G	2.39	2.54	2.69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

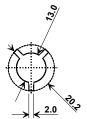
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



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			

