

RFM products are now Murata products.

• 303.325 to 307.300 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

RF3602D

305.3 MHz **SAW Filter**



Electrical Characteristics

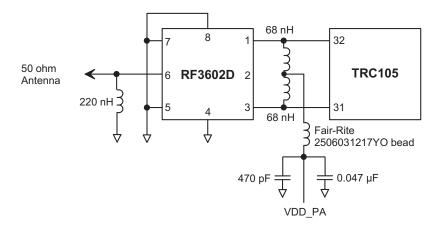
Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C			305.3		MHz	
1 dB Bandwidth	BW ₁			12.5		MHz	
Maximum Insertion Loss, 303.325 to 307.300 MHz	IL _{MAX}			1.8	2.0		
Amplitude Ripple, p-p, 303.325 to 307.300 MHz					1.0		
Rejection Referenced to Insertion Loss at 303.825 MHz:							
DC to 285.3 MHz			37	40			
335.3 to 355.3 MHz			27	30		dB	
355.3 to 755.3 MHz			44	47			
755.3 to 1255.3 MHz			50	53			
1255.3 to 2000 MHz			26	29			
Source Impedance	Z _S			50		Ω	
Balanced Load Impedance	ZL			150		Ω	
Case Style		SM3	3838-8 3.8 x 3	3.8 mm Nomina	I Footprint		
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator							
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

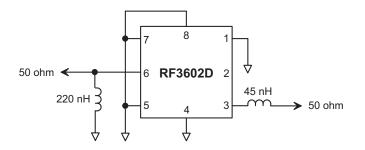
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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. 1.
- 2. 3.
- matching to 50 0 and measured with 50 0 pretwork 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.
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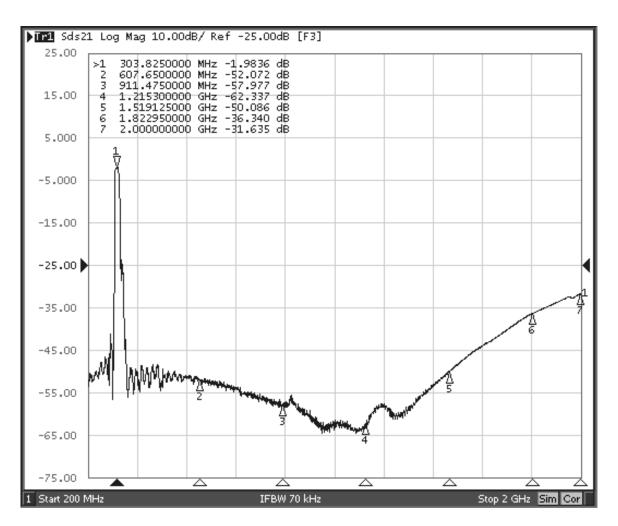


RF3602D-TRC105 Application Circuit

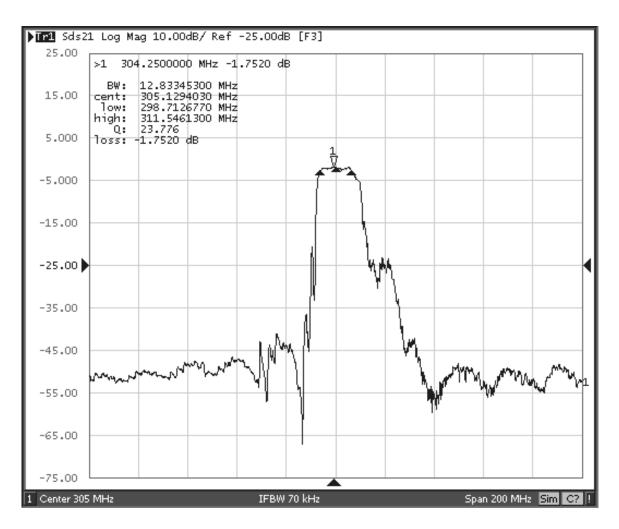
RF3602D 50 Ohm Tuning Network



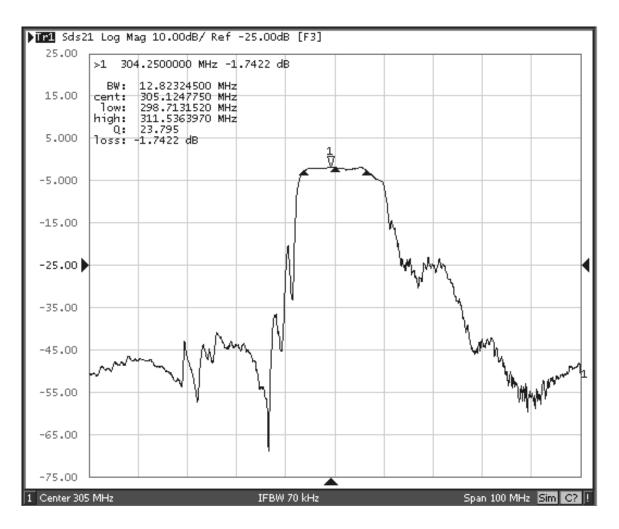
RF3602D Broadband Response, 200 to 2000 MHz



RF3602D Response, 205 to 405 MHz



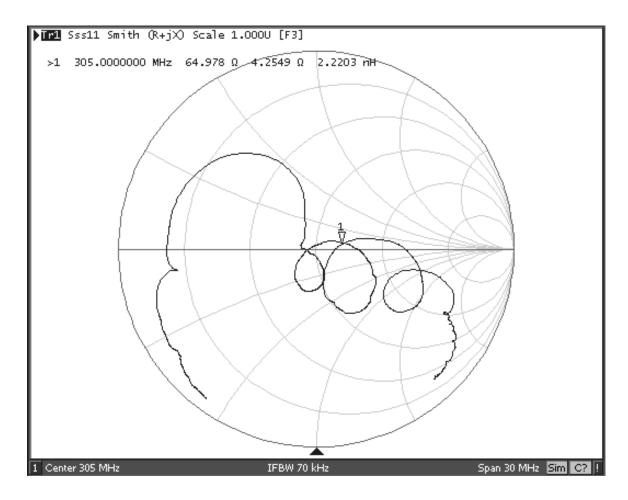
RF3602D Response, 255 to 355 MHz



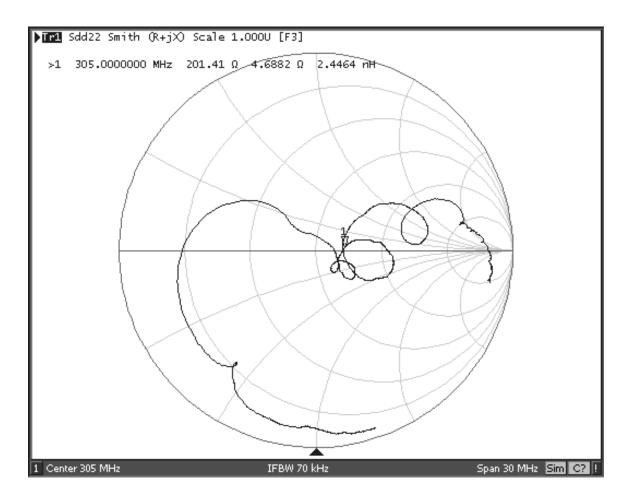
RF3602D Passband Response



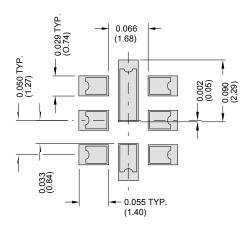




RF3602D Balanced Output Impedance Plot



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



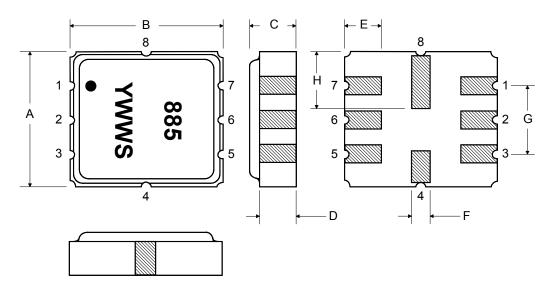
Case Dimensions							
Dimension	mm			Inches			
Dimension	Min	Nom	Max	Min	Nom	Max	
Α	3.6	3.8	4.0	0.142	0.150	0.157	
В	3.6	3.8	4.0	0.142	0.150	0.157	
С	0.90	1.00	1.1	0.035	0.040	0.043	
D	0.80	0.90	1.0	0.031	0.035	0.040	
E	0.90	1.00	1.10	0.035	0.040	0.043	
F	0.50	0.60	0.70	0.020	0.024	0.028	
G	2.39	2.54	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				

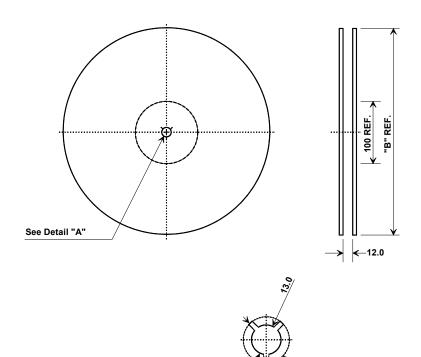
PCB Footprint



BOTTOM VIEW



Tape and Reel Specifications



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

COMPONENT ORIENTATION and DIMENSIONS

2.0

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

