Preliminary

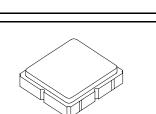


- 303.325 to 307.300 MHz Filter
- Optimized for use with the TRC105 Transceiver
- Balanced 150 ohm IC Interface
- Complies with Directive 2002/95/EC (RoHS)

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

Þb



RF3602D

305.3 MHz

SAW Filter

SM3838-8

3000 Pieces/Reel

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	SM3838-8 3.8 x 3.8 mm Nominal Footprint					
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	885, YWWS					
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel					

Electrical Connections

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

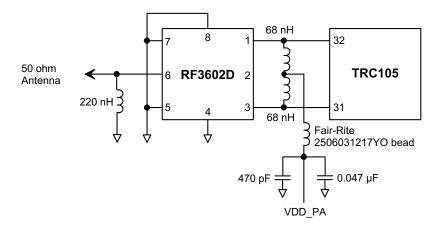
Reel Size 13 Inch



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

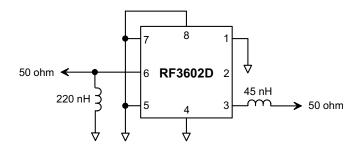
- 1. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc. 2. 3. 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.
- 4.
- 5.
- US and international patents may apply. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc. 6.

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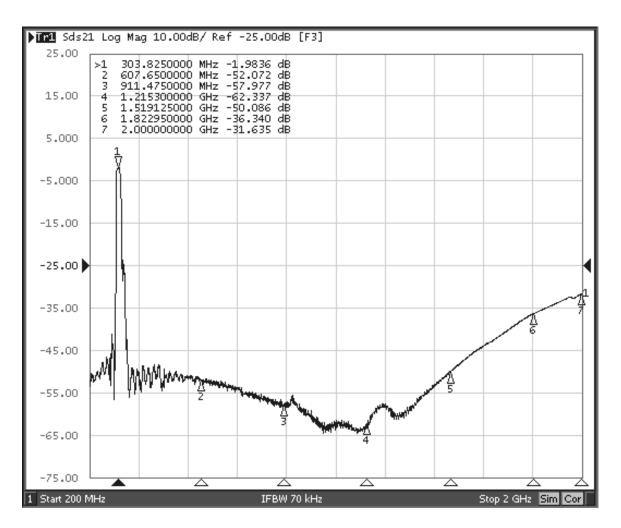


RF3602D-TRC105 Application Circuit

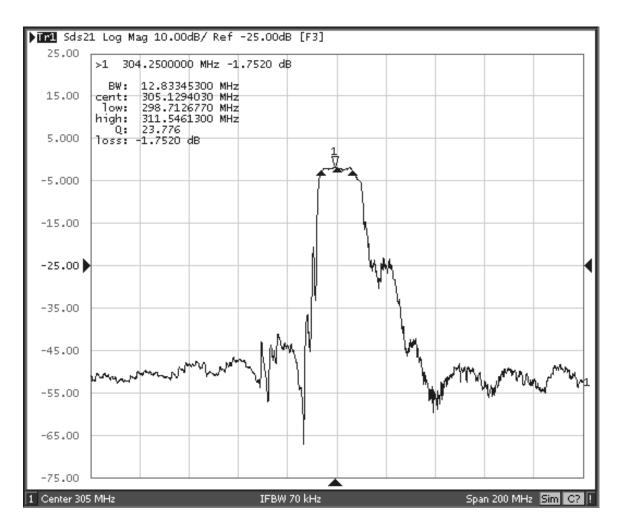
RF3602D 50 Ohm Tuning Network



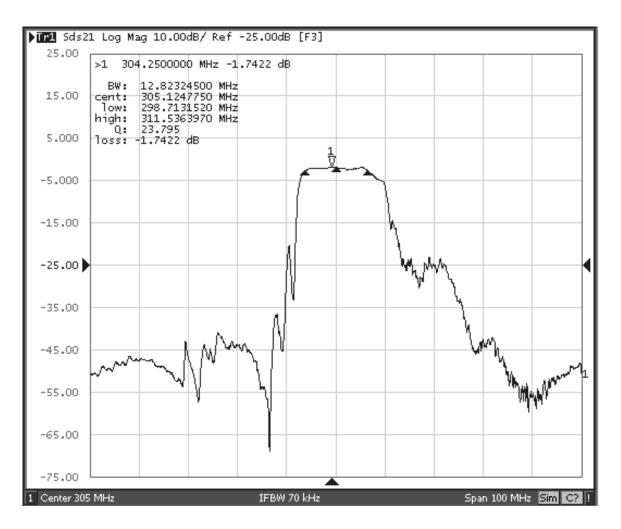
RF3602D Broadband Response, 200 to 2000 MHz



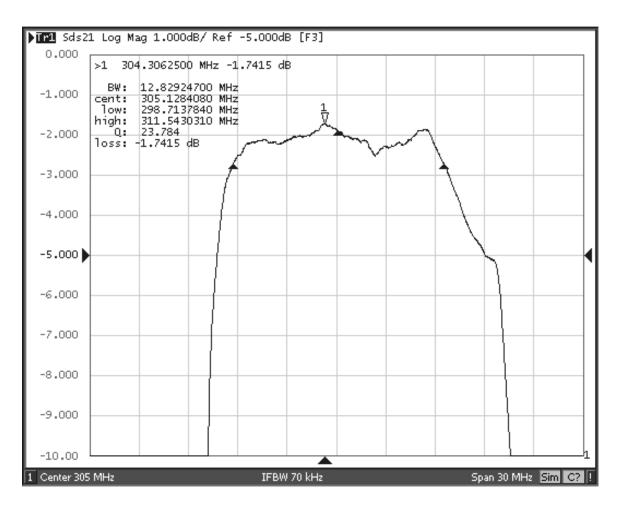
RF3602D Response, 205 to 405 MHz



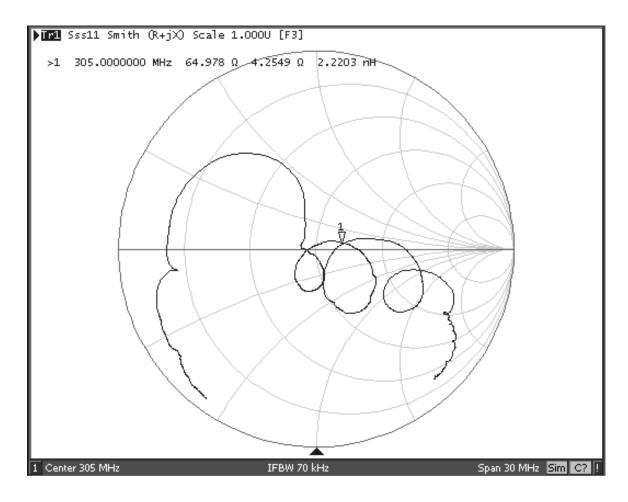
RF3602D Response, 255 to 355 MHz



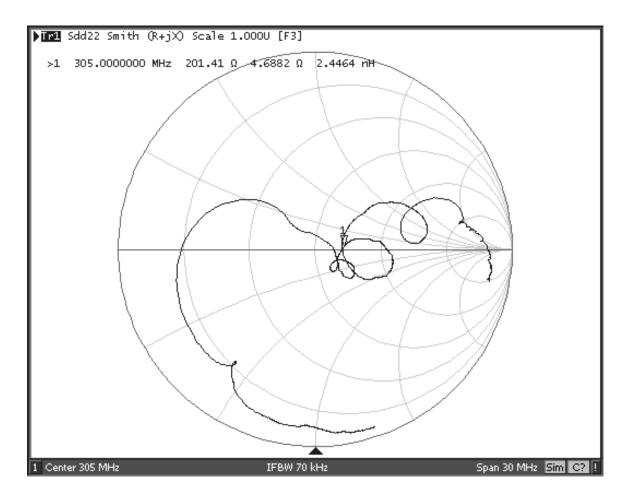
RF3602D Passband Response



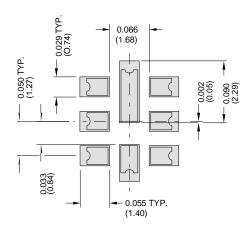








8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint



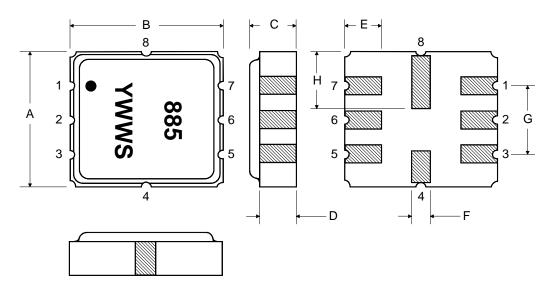
Case Dimensions							
Dimension	mm			Inches			
Dimension	Min	Nom	Max	Min	Nom	Max	
A	3.6	3.8	4.0	0.142	0.150	0.157	
В	3.6	3.8	4.0	0.142	0.150	0.157	
С	0.90	1.00	1.1	0.035	0.040	0.043	
D	0.80	0.90	1.0	0.031	0.035	0.040	
E	0.90	1.00	1.10	0.035	0.040	0.043	
F	0.50	0.60	0.70	0.020	0.024	0.028	
G	2.39	2.54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

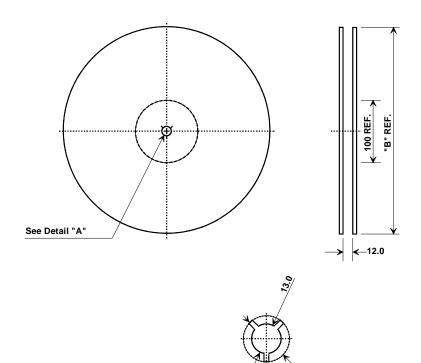


BOTTOM VIEW



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Tape and Reel Specifications

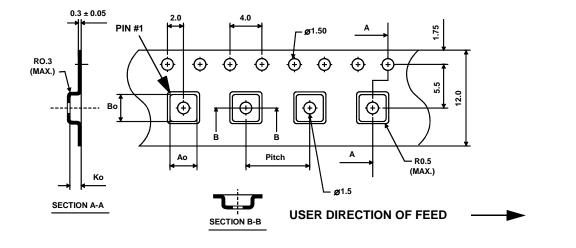


"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

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			



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