

Discontinued

RFM products are now Murata products.

RF3606D

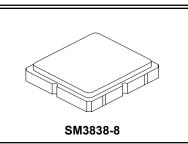
390 MHz

SAW Filter

- 383.1 to 396.9 MHz Filter
- Optimized for use with the TRC105 Transceiver
- Balanced 150 ohm IC Interface
- Complies with Directive 2002/95/EC (RoHS) (Ph

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			390.0		MHz	
1 dB Bandwidth				16.0		MHz	
Maximum Insertion Loss, 383.1 to 396.9 MHz	IL _{MAX}			1.4	2.4		
Amplitude Ripple, p-p, 383.1 to 396.9 MHz					1.0	1	
Rejection Referenced to Insertion Loss at 390.0 MHz:							
DC to 370 MHz			32	35			
400 to 490 MHz			32	35		- dB -	
490 to 890 MHz			42	45			
890 to 1390 MHz			63	66			
1390 to 1790 MHz			55	58			
1790 to 2000 MHz			53	56			
Source Impedance				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	889, YWWS						
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel						
Reel Size 13 Inch	3000 Pieces/Reel						

Electrical Connections

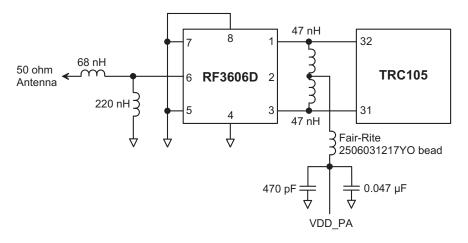
Connection	Terminals
Single-ended Port	6
Balanced Port	1, 3
Case Ground	4, 5, 7, 8
No Connection	2



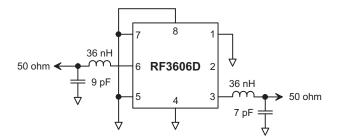
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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. 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
- 2. 3. impedance matching design. See Application Note No. 42 for details.
- 4 The design, manufacturing process, and specifications of this filter are subject to change.
- 5. US and international patents may apply. 6. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

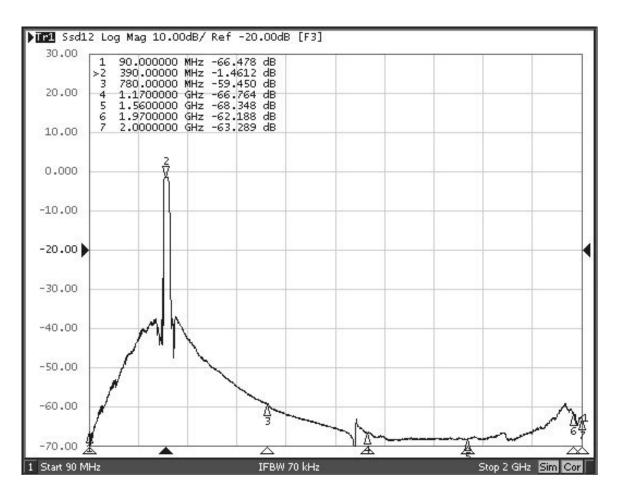




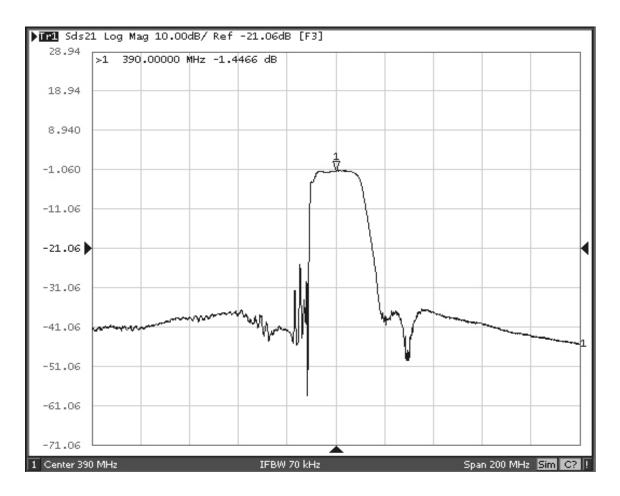
RF3606D 50 Ohm Tuning Network



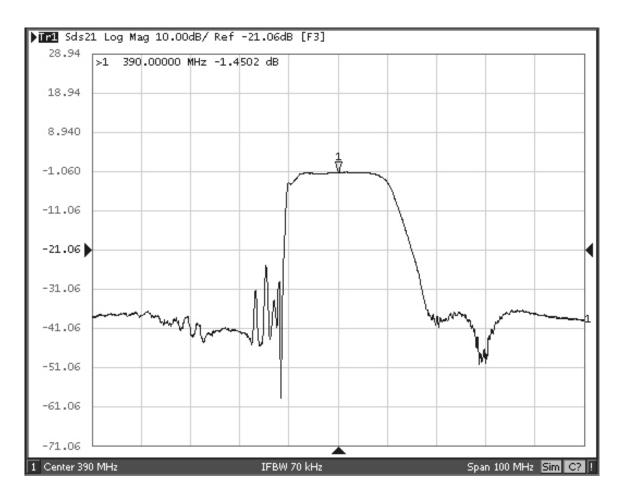
RF3606D Broadband Response, 200 to 2000 MHz



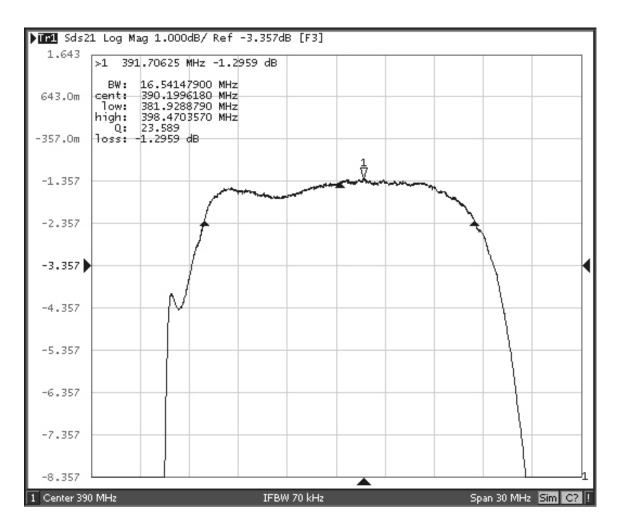
RF3606D Response, 290 to 490 MHz



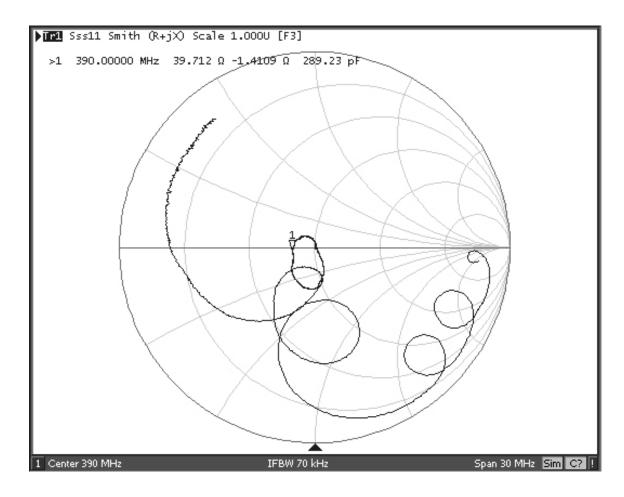
RF3606D Response, 340 to 440 MHz



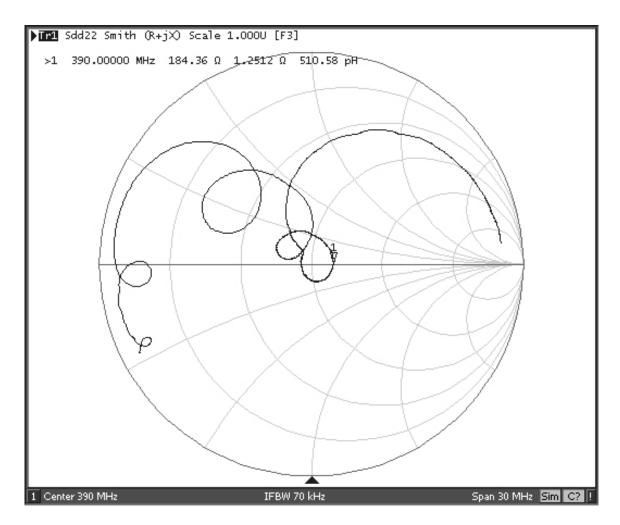
RF3606D Passband Response



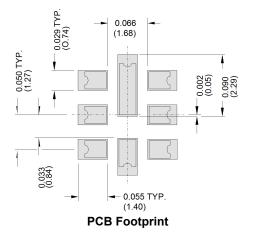








8-Terminal Ceramic Surface-Mount Case 3.8 X 3.8 mm Nominal Footprint

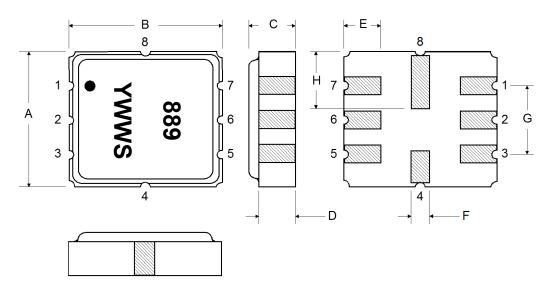


Case Dimensions							
Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	3.6	3.8	4.0	0.142	0.150	0.157	
В	3.6	3.8	4.0	0.142	0.150	0.157	
С	0.90	1.00	1.1	0.035	0.040	0.043	
D	0.80	0.90	1.0	0.031	0.035	0.040	
E	0.90	1.00	1.10	0.035	0.040	0.043	
F	0.50	0.60	0.70	0.020	0.024	0.028	
G	2.39	2.54	2.69	0.090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

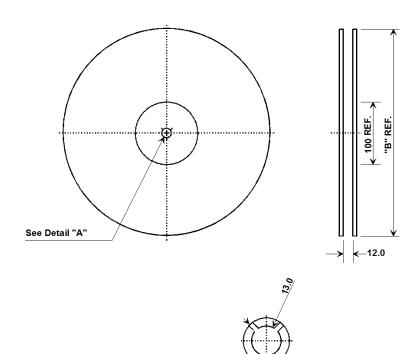
Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				







Tape and Reel Specifications



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

COMPONENT ORIENTATION and DIMENSIONS

2.0 00

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

