

Discontinued

RFM products are now Murata products.

SF2093E

Steep Roll-off Filter for 915 MHz ISM band

- Differential Input / Single-ended Output
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+15	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-30 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260°C for 30 s	

915.00 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			915.00		MHz
Insertion Loss, 902 to 928 MHz	IL			2.5	3.5	
Amplitude Ripple, p-p, 902 to 928 MHz				0.5	2.0	
VSWR, 902 to 928 MHz				1.75	2.4	
Attenuation Referenced to 0 dB:						
DC to 800 MHz			40	54		dB
850 to 870 MHz			35	54		
960 to 1035 MHz			28	36		
1035 to 1500 MHz			40	57		
1500 to 3000 MHz			30	56		
Source Impedance	Z _S			800		Ω
Load Impedance	ZL			50		Ω
Case Style		SM3030-8 3.0 x 3.0 mm Nominal Footprint				

Case Style	SW3030-0 3.0 x 3.0 min Nominar Footprint	
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	582, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

Electrical Connections

Connection	Terminals	
Input, Balanced	1, 3	
Output, Single Ended	6	
Case Ground	All others	

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

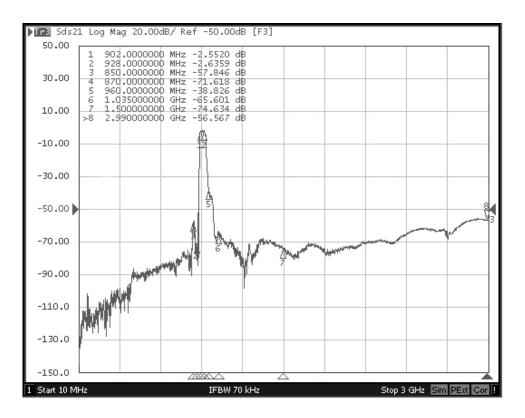
NOTES:

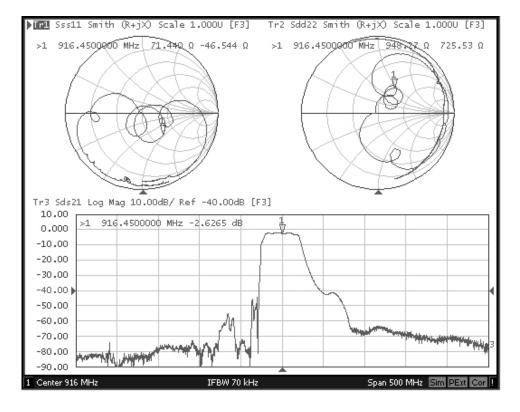
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance 1. matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. 3. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

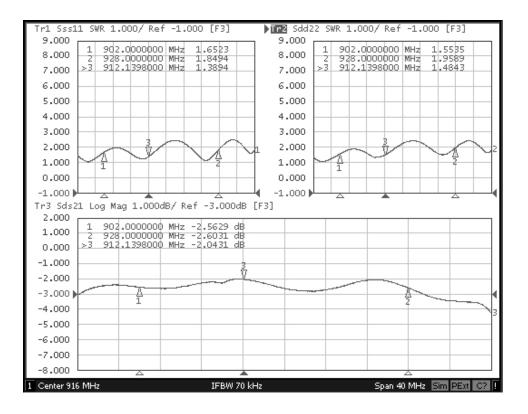
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- 6. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

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.

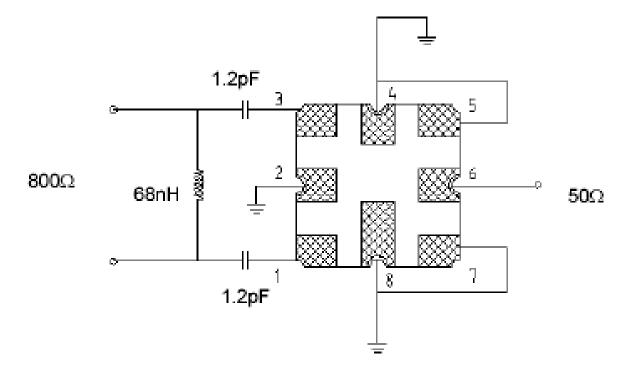
SF2093E Filter Response Plots



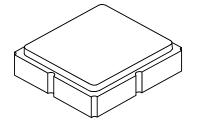


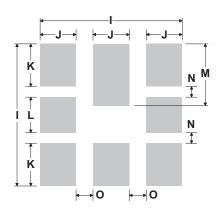


D. MEASUREMENT CIRCUIT:



8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

TOP VIEW

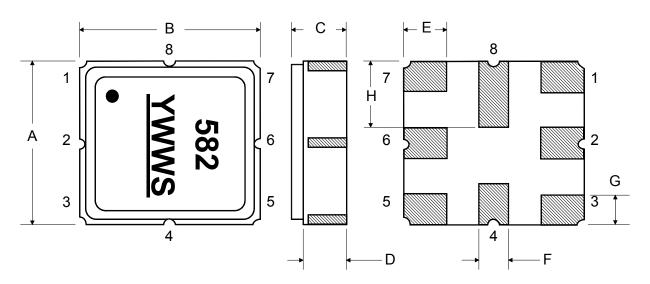
Case and PCB Footprint Dimensions

Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
С	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
н	1.07	1.20	1.33	0.042	0.047	0.052
I		3.19			0.126	
J		0.81			0.032	
К		0.96			0.038	
L		0.81			0.032	
М		1.39			0.055	
N		0.23			0.009	
0		0.38			0.015	

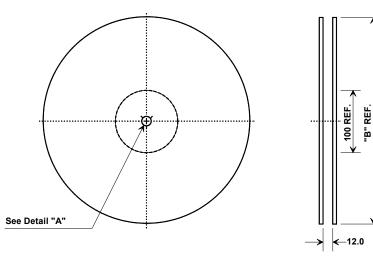
Case Materials

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					

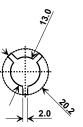
BOTTOM VIEW



Tape and Reel Specifications

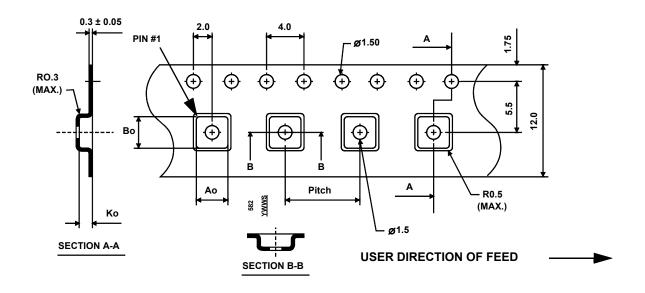


"B"		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ко	1.40 mm			
Pitch	8.0 mm			
W	12.0 mm			

COMPONENT ORIENTATION and DIMENSIONS



单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)