imall

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.

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RFM products are now Murata products.

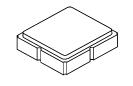
SF2079E

Precision UHF SAW Filter

- 3.0 X 3.0 X 1.2 mm Surface-mount Case
- Differential Input and Output
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
DC Voltage on any Non-ground Terminal	30	VDC
Operating Temperature Range	-40 to +85	°C
Component Storage Temperature Range	-60 to +95	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	



251.045 MHz

SAW Filter

SM3030-8

Electrical Characteristics

Characteristic	Sum.	Notoo	Min	Turn	Мох	Units	
	Sym	Notes	IVIIN	Тур	Max		
Center Frequency	f _C	1		251.045		MHz	
Insertion Loss	IL	-		12.5	15.0	dB	
Amplitude Ripple:							
(fc - 6.2500) to (fc - 4.3925) MHz				1.3	2.0		
(fc - 4.3925) to (fc - 2.5350) MHz				0.5	1.5		
(fc - 2.5350) to (fc - 0.0250) MHz				0.5	1.5	dB _{P-P}	
(fc + 0.0250) to (fc + 2.5350) MHz		1, 2		0.7	1.5	upp-b	
(fc + 2.5350) to (fc + 4.3925) MHz		1, 2		0.6	1.5		
(fc + 4.3925) to (fc + 6.2500) MHz		1		0.9	2.5		
1.5 dB Bandwidth centered at fc				13.4		MHz	
3.0 dB Bandwidth centered at fc				14.1			
Low Side Attenuation < fc - 16.5 MHz			35	38			
Low Side Attenuation, 234.545 to 240.545 MHz (fc - 10.5 MHz)			32	34			
High Side Attenuation, 260.045 to 267.545 MHz (fc + 9.0 MHz)			14	26		dB	
High Side Attenuation > fc + 16.5 MHz			30	35			
Temperature Coefficient of frequency					-18	ppm/K	
Group Delay Ripple:							
(fc - 6.2500) to (fc - 4.3925) MHz		1, 2, 3		44	90		
(fc - 4.3925) to (fc - 2.5350) MHz		1		37	70		
(fc - 2.5350) to (fc - 0.0250) MHz				39	120	nc	
(fc + 0.0250) to (fc + 2.5350) MHz				40	120	ns _{P-P}	
(fc + 2.5350) to (fc + 4.3925) MHz				34	70		
(fc + 4.3925) to (fc + 6.2500) MHz				37	90		
Source/Load Impedance				150		ohms	
Case Style		6	SM3030-8 3.0 x 3.0 mm Nominal Footprint		ootprint		
Lid Symbolization (YY=year, WW=week, S=shift) See note 4			829 YWWS				

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

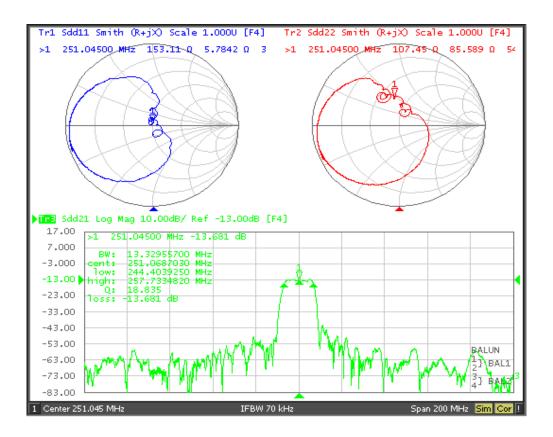
NOTES:

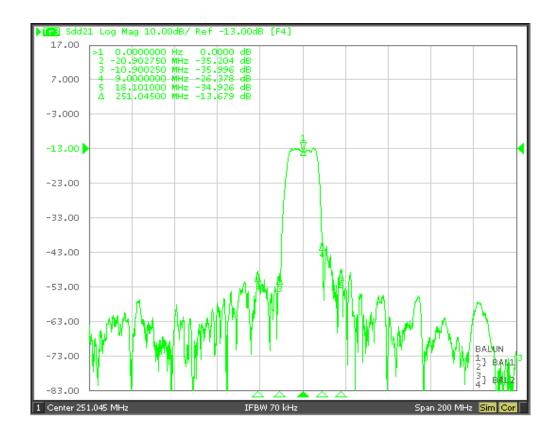
- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network 1. analyzer.
- 2. Unless noted otherwise, all frequency specifications are referenced to the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

- 4. subject to change. Tape and Reel Standard Per ANSI / EIA 481.
- 5.
- 6.

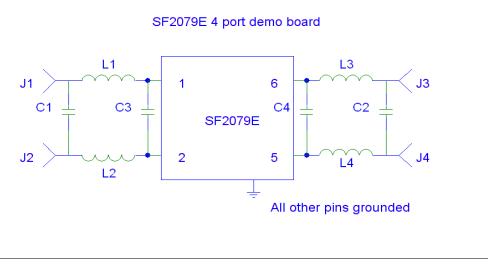
US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered 7. trademarks of Murata Manufacturing Co., Ltd.

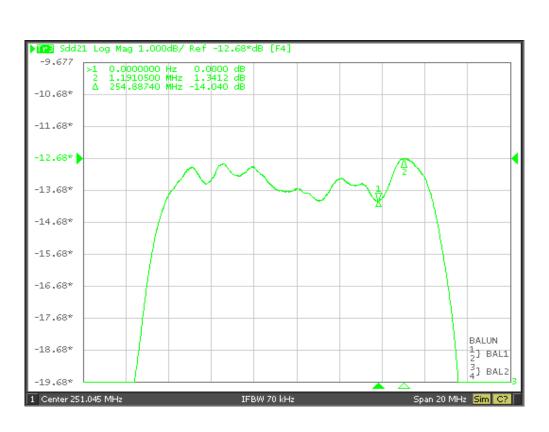




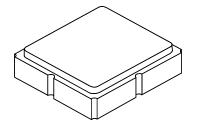


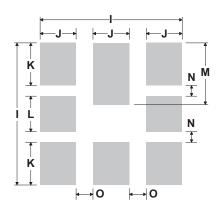
	$\begin{array}{c} 2 \\ 2 \\ 2 \\ \end{array}$
PCB 401-1724-C J1,J2,J3,J4 500-1279-C L1,L2 501-1068-2 C1 501-1068-7 C2 501-0857-7 C3 501-0857-7 C4 501-0857-7	 CONNECTOR, SMA FEMALE, END LAUNCH, 062" THICK PCB INDUCTOR, CHIP, 39 nH 0603 INDUCTOR, CHIP, 47 nH 0603 CAPACITOR, CHIP, 15 pF 0402 CAPACITOR, CHIP, 12 pF 0402 CAPACITOR, CHIP, 12 nF 0402





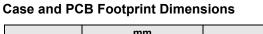
8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

TOP VIEW

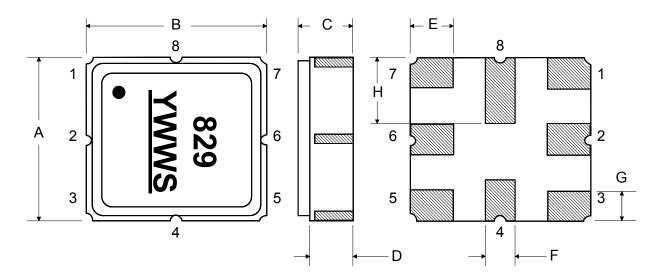


Dimension mm			Inches			
Dimension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
С	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029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

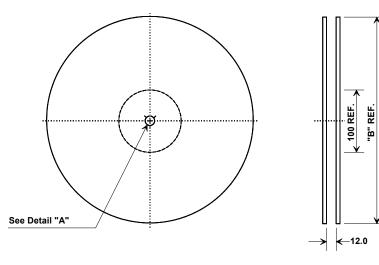
Case Materials

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				

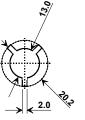
BOTTOM VIEW



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	1.4 mm			
Pitch	8.0 mm			
W	12.0 mm			

COMPONENT ORIENTATION

