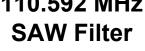
To Be Discontinued



RFM products are now Murata products.

SF1056A

- 110.592 MHz





Designed for DECT and WLAN IF Applications

- Low Insertion Loss
- Excellent Size-to-Performance Ratio
- Hermetic 13.3 X 6.5 mm Surface-Mount Case
- Unbalanced Input and Output
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units	
Maximum Incident Power in Passband	+10	dBm	
Max. DC voltage between any 2 terminals 30 VDC			
Storage Temperature Range	-40 to +85 °C		
Suitable for lead-free soldering - Max Soldering Profile	260°C for 30 s		

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1	110.592			MHz
Passband	Insertion Loss at fc	IL	'		8.5	10.0	dB
	3 dB Passband	BW ₃	1.0	±576	±750		kHz
	Group Delay Variation over fc ±576 kHz	GDV	1, 2		<150	200	ns _{P-P}
Rejection	fc-3.4 to fc-1.728 and fc+1.728 to fc+3.4 MHz			28	40		
	DC to fc-3.4 and fc+3.4 to 200 MHz		1, 2, 3	40	>45		dB
	Ultimate				45		
Operating Temperature Range		T _A	1	-10		+60	°C

Impedance Matching to 50 Ω unbalanced	External L-C
Case Style	SM13365-12 13.3 X 6.5 mm Nominal Footprint
Lid Symbolization (YY=year, WW=week) See note 4	RFM SF1056A YYWW

Electrical Connections

Connection	Terminals
Port 1Hot	2
Port 1 Gnd Return	3
Port 2 Hot	8
Port 2 Gnd Return	9
Case Ground	All Others



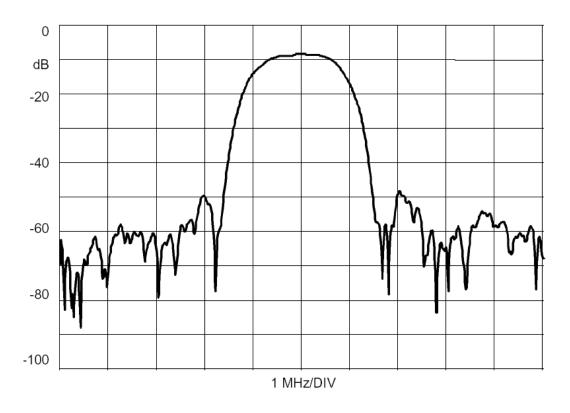
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

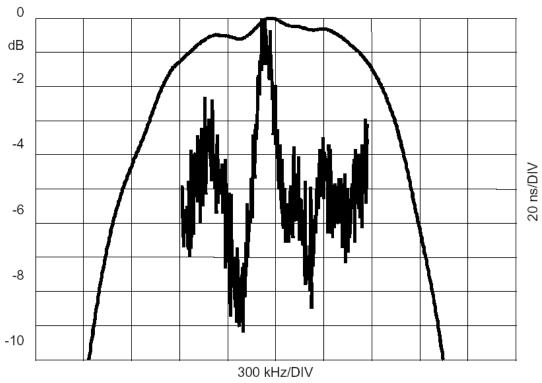
NOTES:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network ana-
- Únless 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.
 "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
- The design, manufacturing process, and specifications of this filter are subject to change.

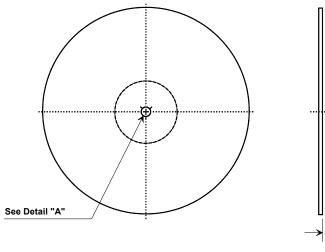
 Either Port 1 or Port 2 may be used for either input or output in the design.
- However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
- US and international patents may apply.

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

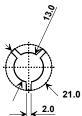




Tape and Reel Specifications



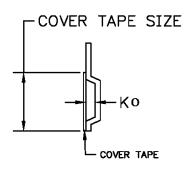
Quantity Per Reel
100 Min
1000 Max



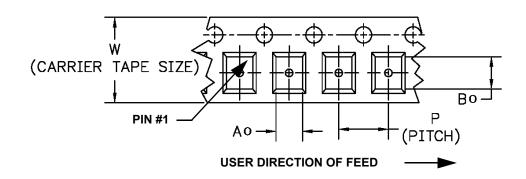
COMPONENT ORIENTATION and DIMENSIONS

← 24.4

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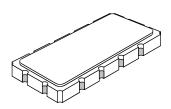


Carrier Tape Dimensions				
Ao	7.0 mm			
Во	13.8 mm			
Ко	2.0 mm			
Pitch	12.0 mm			
W	24.0 mm			



SM13365-12 Case

12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint



Case Dimensions						
Dimension	mm		Inches			
	Min	Nom	Max	Min	Nom	Max
Α	13.08	13.31	13.60	0.515	0.524	0.535
В	6.27	6.50	6.80	0.247	0.256	0.268
С		1.91	2.00		0.075	0.079
D		1.50			0.059	
E		0.79			0.031	
Н		1.0			0.039	
Р		2.54			0.100	

Materials					
Solder Pad Termination	Au plating 30 - 60 μ inches (76.2-152 μ m) over 80-200 μ inches (203-508 μ m) Ni.				
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 µinches Thick				
Body	Al ₂ O ₃ Ceramic				
Pb Free					

Electrical Connections				
Connection		Terminals		
Port 1	Input or Return	2		
	Return or Input	3		
Port 2	Output or Return	8		
	Return or Output	9		
Ground		All others		
Single Ended Operation		Return is ground		
Differential Operation		Return is hot		

