

Discontinued

RFM products are now Murata products.

SF1091A

211 MHz

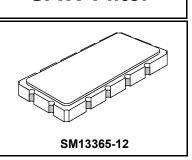
SAW Filter

Designed for GSM BTS Transmitter 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 Specification

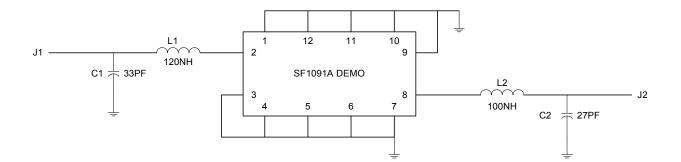
Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _C	1		211.000		MHz
Passband	Insertion Loss at fc	IL			7	8.0	dB
	3 dB Passband	BW3	1, 2	±450	±500		kHz
	Group Delay Variation over fc ±150 kHz	GDV			200	250	ns _{P-P}
Rejection	fc-2.0 to fc-1.05 and fc+1.05 to fc+2.0 MHz		1, 2, 3	10	21		dB
	fc-80 to fc-2.0 and fc+2.0 to fc+80 MHz			30	33		
	n x fc over 291 to 2000 MHz			40	60		
Operating Temperature Range		T _A	1	-10		+85	°C
Frequency Temperature Coefficient		FTC	1		0.32		ppm/°C ²
Impedance Matching to 50 Ω unbalanced				Exte	ernal L-C		
Case Style		SM13365-12 13.3 x 6.5 mm Nominal Footprint					
Lid Symbolization	(XX = 2 character date code) RFM SF1091A XX						

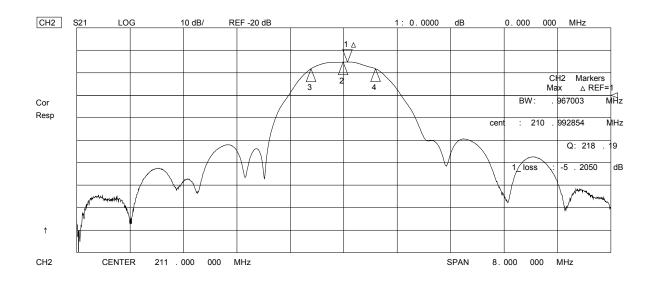


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

- 1 Unless noted otherwise, all specification apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω network analyzer.
- 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 oon PCB layout
- and external impedance matching design. See Application Note No. 42 for details.
- 4. The turnover temperature, T_O, is the temperature of maximum (or turnover) frequency, f_o. The nominal frequency at any case temperature, T_c, may be calculated from: $f=f_0[1-FTC(T_0-T_c)^2]$.
- 5
- 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 6. and Port 2, so that the filter must always be installed in one direction per the circuit design.
- 7. US and international patents may apply.



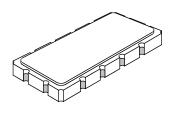


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SM13365-12 Case

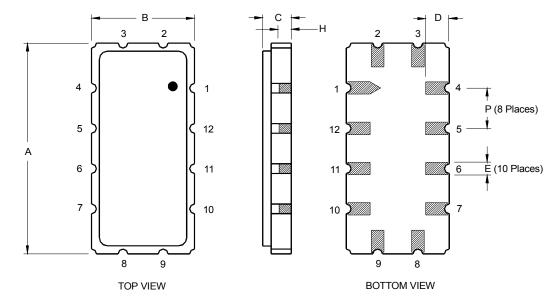
12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint

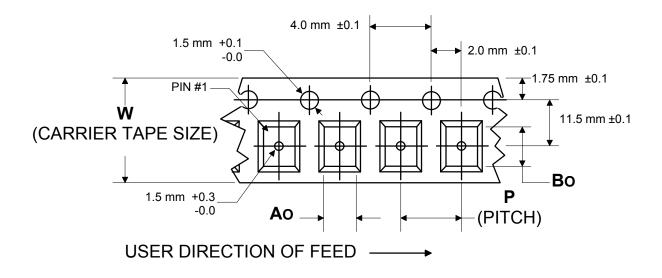


Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Мах	Min	Nom	Мах
Α	13.08	13.31	13.60	0.515	0.524	0.535
В	6.27	6.50	6.80	0.247	0.256	0.268
С		1.91	2.00		0.075	0.079
D		1.50			0.059	
E		0.79			0.031	
н		1.0			0.039	
Р		2.54			0.100	

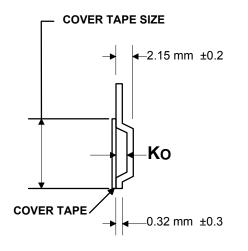
Materials				
Solder Pad	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200			
Termination	ulnches (203-508 uM) Ni.			
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phos-			
	phorus) 100-200 uInches Thick			
Body	Al ₂ O ₃ Ceramic			
Pb Free	•			

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		





COMPONENT ORIENTATION and DIMENSIONS



Carrier Tape Dimensions				
Ao	7.0 mm	±0.1		
Во	13.8 mm	±0.1		
Ко	2.2 mm	±0.1		
Pitch	12.0 mm	±0.1		
W	24.0 mm	±0.3		

单击下面可查看定价,库存,交付和生命周期等信息

>>Murata(村田)