

SF1177A

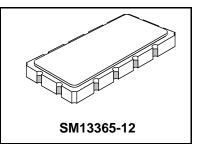
- Designed for Wide Channel IF Filtering
- Low Insertion Loss
- Hermetic 13.3 x 6.5 mm Surface-mount Case
- Balanced or Single Ended Input and Output
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+13	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	

57.6 MHz **SAW Filter**



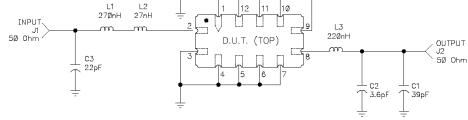
Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units
Nominal Frequency		f _N	1		57.6		MHz
Passband bandwidth	1dB	B_W	1	21.2			MHz
Insertion Loss	47 68.2 MHz	1∟	1, 2,3			15.0	dB
Rel. Attenuation to a _{max}	0 29.8 MHz		1, 2,3	45			
	85.4 250 MHz	a _{rel}		45			dB
	250 1000 MHz			35			1
Amplitude ripple (p-p)	47 68.2 MHz	Δа	4.0.0			1.5	dB
Group delay ripple (p-p)	47 68.2 MHz	Δτ	1, 2, 3			50	ns
1 dB compression	47 68.2 MHz			12			dBm
Input IP3	47 68.2 MHz			30			dBm
Max. Input level (non-destructive)				13			dBm
Operating Temperature			1	-25		+85	°C
Terminating source impedance					50		Ohm
Terminating load impedance					50		Ohm

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)	RFM SF1177A YYWW		

Electrical Connections

Connection	Terminals
Port 1 Hot	2
Port 2 Hot	8
Case Ground	All others



- Notes:

 1. Unless noted otherwise, all specifications apply over the operating temperature

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 1. The all field domenstration board with impedance range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- 2. 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 impedance matching design. See Application Note No. 42 for details. Part to part absolute delay measurement records the absolute delay mean
- across 1 dB passband.
- "LRIP" or "L" after the part number indicates "low rate initial production" and 5. "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

SF1177A-121604

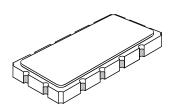
- US and international patents may apply.
- Electrostatic Sensitive Device. Observe precautions for handling.



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SM13365-12 Case

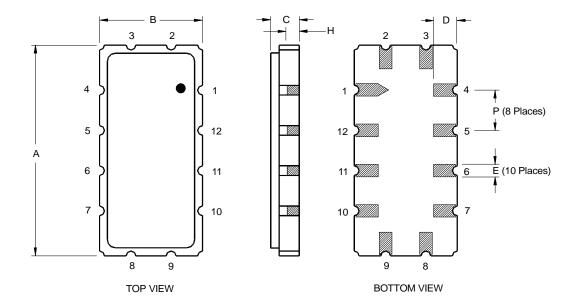
12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint



	Case Dimensions					
Dimension	mm			Inches		
Difficusion	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	

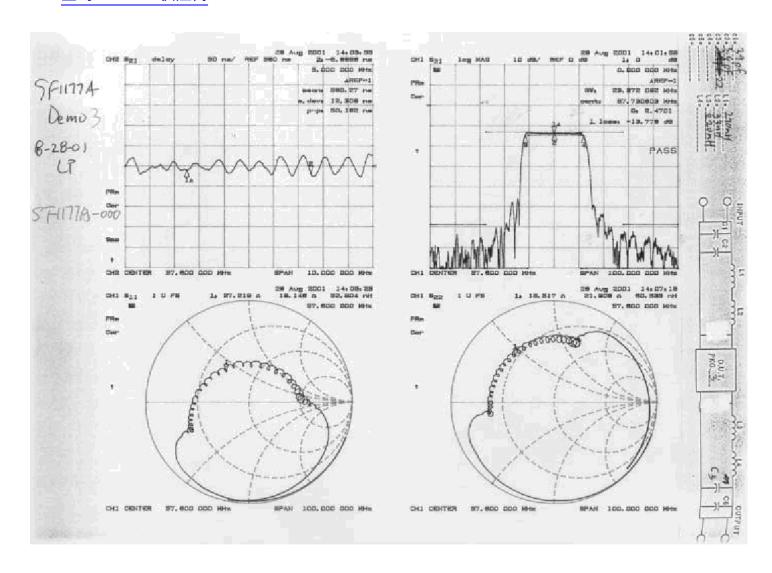
Materials					
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80- 200 ulnches (203-508 uM) Ni.				
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick				
Body	Al ₂ O ₃ Ceramic				
Pb Free					

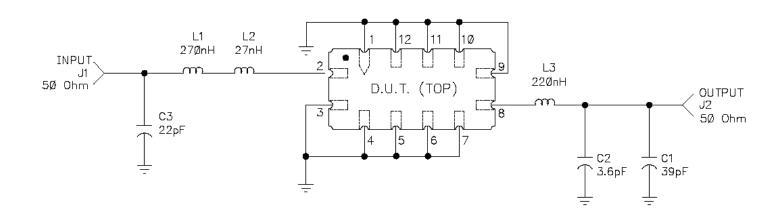
Electrical Connections				
	Connection	Terminals		
Port 1	Input or Return	2		
	Return or Input	3		
Port 2	Output or Return	8		
	Return or Output	9		
	Ground	All others		
Single Ended Operation		Return is ground		
Differential Operation		Return is hot		



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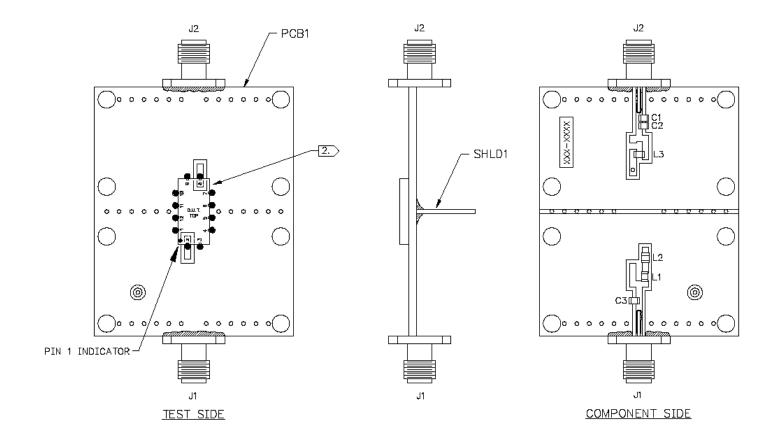


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NOTES:

- 1. SOLDER MOUNT COMPONENTS & CONNECTORS TO PCB1.
- 2. ORIENT THE FLTR1 AND SOLDER IT DOWN TO THE BOARD AS SHOWN.



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