



- Designed for GSM BTS Transmitter 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)

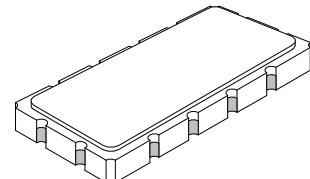


Absolute Maximum Ratings

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	

SF1087A

**208 MHz
SAW Filter**



SM13365-12

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency	f_C	1		208.000		MHz
Passband	IL			5	7.0	dB
	BW ₁	1, 2	±150	±260		kHz
					1.25	dB _{P-P}
	GDV			<100	150	nS _{P-P}
	GD		0.7	1.0	1.7	μs
Rejection	fc-0.6 to fc-0.4 and fc+0.4 to fc+0.6 MHz	1, 2, 3	2			dB
	fc-1.2 to fc-0.6 and fc+0.6 to fc+1.2 MHz		8			
	fc-1.8 to fc-1.2 and fc+1.2 to fc+1.8 MHz		20	22		
	fc-3.4 to fc-1.8 and fc+1.8 to fc+3.4 MHz		25	36		
	fc-9.5 to fc-3.4 and fc+3.4 to fc+9.5 MHz		30	47		
	fc-13 to fc-9.5 and fc+9.5 to fc+13 MHz		43	64		
	DC to fc-13 and fc+13 to 450 MHz		55	65		
	Except Spurious Rejection near 1.6, 1.8, and 2.0 x fc		50			
Operating Temperature Range	T_A	1	-10		+85	°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)	RFM SF1087A YYWW

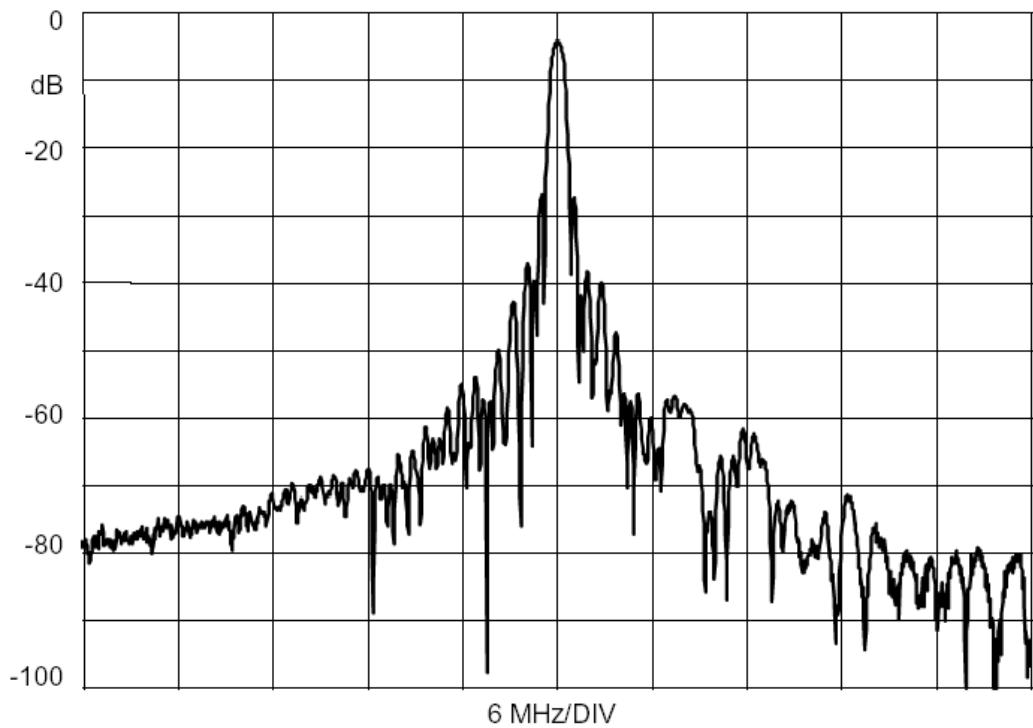
Notes:

- Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 W and measured with 50 Ω network analyzer.
- Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, f_C .
- 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.
- Electrostatic Sensitive Device. Observe precautions for handling.



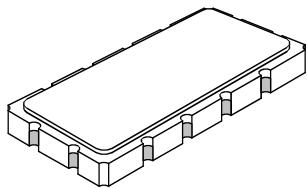
Electrical Connections

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

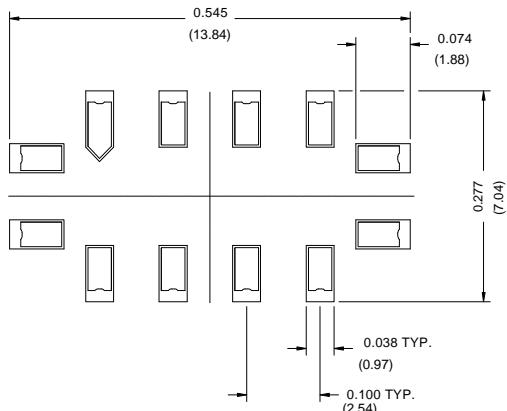
[查询"SF1087A"供应商](#)

查询"SF1087A"供应商
SM13365-12 Case

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

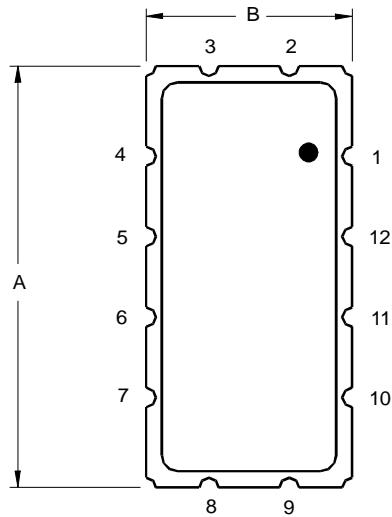


Dimension	Case Dimensions			Inches		
	Min	Nom	Max	Min	Nom	Max
A	13.08	13.31	13.60	0.515	0.524	0.535
B	6.27	6.50	6.80	0.247	0.256	0.268
C		1.91	2.00		0.075	0.079
D		1.50			0.059	
E		0.79			0.031	
H		1.0			0.039	
P		2.54			0.100	

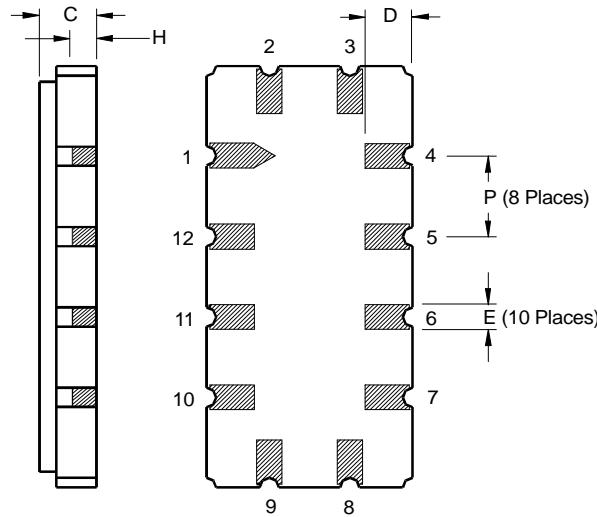


Electrical Connections		
Connection		Terminals
Port 1	Input or Return	2
	Return or Input	3
Port 2	Output or Return	8
	Return or Output	9
Ground		All others
Single Ended Operation		Return is ground
Differential Operation		Return is hot

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 μ inches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	



TOP VIEW



BOTTOM VIEW