Preliminary



SF2095B

- - **SAW Filter**

380.00 MHz

Differential Input and Output or Single Ended Input and Output Complies with Directive 2002/95/EC (RoHS)

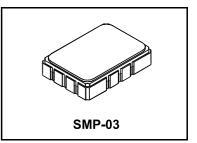
5.0 X 7.0 mm Surface-Mount Case



Absolute Maximum Ratings

Low Insertion Loss

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 Temperature	260°C for 30 s		



Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units		
Nominal Center Frequency		f _C	1	379.9	380.00	380.1	MHz		
Source Impedance (single ended)					50		Ω		
Load Impedance (single ended)					50		Ω		
Insertion Loss						13	dB		
1 dB Bandwidth		BW ₁		2.5	2.55	2.6	MHz		
3 dB Bandwidth		BW ₃			2.7	2.75	MHz		
30 dB Bandwidth		BW ₃₀				4.0	MHz		
40 dB Bandwidth		BW ₄₀				5.0	MHz		
Passband Ripple	CF ±0.875 MHz					0.5	dB		
Group Delay Variation						150	ns		
Ultimate Rejection	CF ±1.75 MHz			30			dB		
	CF ±3 MHz			50			dB		
Maximum Peak RF Input Power						13	dBm		
Maximum RF Input Power Over Life						10	dBm		
Matching to 50Ω Single Ended Impedance					External L-C		•		
Temperature Range	Operating			-40		85	- °C		
	Storage			-40		85			
Frequency Temperature Coefficient		FTC			0.032		ppm/°C ²		
Case Style				SMP-03 7 x 5 mm Nominal Footprint					
Lid Symbolization (YY=year, WW=week, S=shift)			RFM SF2095B YYWWS						

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 analyzer.
- 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 subject to change.

The turnover temperature, T_{C} , is the temperature of maximum (or turnover) frequency, f_{C} . The nominal frequency at any case temperature, T_{C} , may be calculated from: $f=f_o[1-FTC(T_o-T_c)^2].$

Tape and Reel Standard ANSI / EIA 481.

6. 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.

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Electrostatic Sensitive Device. Observe precautions for handling.



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