SFFF-5075+

 $50/75\Omega$

DC to 3000 MHz

The Big Deal

- Wideband coverage, DC to 3000 MHz
- Good return loss
- Good power handling, 1W



Generic photo used for illustration purposes only CASE STYLE: FF1833

Product Overview

Mini-Circuits' SFFF-5075+ is a coaxial $50/75\Omega$ matching pad covering the DC to 3000 MHz frequency range, supporting impedance matching in a wide range of systems. Including CATV, broadband networks and more. This model is ideal for $50/75\Omega$ impedance matching in systems where minimizing mismatch and signal reflections is a priority. The matching pad housed in a rugged unibody construction with SMA-female (50Ω) to F-female (75Ω) connectors.

Key Features

Feature	Advantages
Wideband, DC to 3000 MHz	Supports a wide variety of applications including CATV systems and equipment.
Compact size, 0.67" x 2.26"	Accommodates tight space requirements for crowded system layouts.
Connectorized package	Easy to interface with other devices and well suited for test setups. Also supports connection between components with different connector types.

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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits website at www.minicircuits.com/MCLStore/terms.jsp

Matching Pad

$50/75\Omega$

DC to 3000 MHz

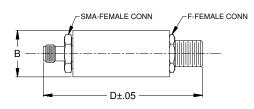
Maximum Ratings

Operating Temperature	-45°C to 85°C			
Storage Temperature	-55°C to 100°C			
Input Power	1W			
Permanent damage may occur if any of these limits are exceeded.				

Coaxial Connections

<i>75</i> Ω	F-Female
50 Ω	SMA-Female

Outline Drawing

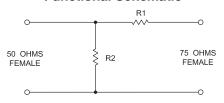


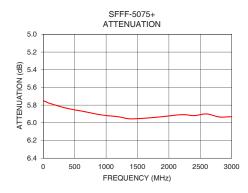
Outline Dimensions (inch mm)

Α	В	С	D	Ε	Wt.
	.67		2.26		grams
	17.02		57.40		32.2

Note: Please refer to case style drawing for details

Functional Schematic





- Wideband coverage, DC to 3000 MHz
- Good return loss
- Rugged unibody construction
- Unidirectional only, $50-75\Omega$

Applications

- Impedance matching
- CATV Systems

SFFF-5075+



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CASE STYLE: FF1833 Connectors Model 75Ω F-F SFFF-5075+

 50Ω F-SMA

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

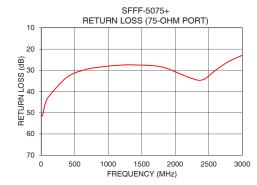
Electrical Specifications at 25°C

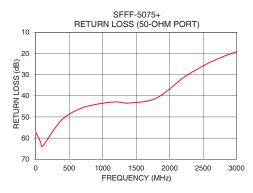
Param	eter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Frequency Range			DC		3000	MHz
Attenuation	Nominal	DC - 3000		5.9		dB
	Flatness ¹	DC - 3000			0.4	
75 Ω Return Loss		DC - 100	35	50		
		100 - 1200		22		dB
		1200 - 3000		15		
		DC - 100	38	50		
50 Ω Return Loss		100 - 1200		30		dB
		1200 - 3000		15		
Input Power		DC - 3000			1	W

^{1.} Flatness= variation over band divided by 2

Typical Performance Data at 25°C

Frequency (MHz)	Attenuation (dB)	Return Loss (dB)	
		75 Ω	50 Ω
1.00	5.75	52.05	57.19
25.75	5.76	50.74	58.76
50.50	5.76	47.04	60.39
75.25	5.77	44.66	62.19
100.00	5.78	42.98	63.95
375.00	5.84	33.48	51.80
650.00	5.87	29.74	46.25
925.00	5.91	28.29	43.91
1200.00	5.93	27.53	42.88
1400.00	5.96	27.49	43.40
1800.00	5.94	28.42	41.10
2200.00	5.91	33.31	31.52
2400.00	5.92	34.55	27.61
2600.00	5.90	29.99	24.17
2800.00	5.93	25.76	21.42
3000.00	5.93	22.91	19.09





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