

N-Type / SMA Adaptenuator

50Ω 0.5W 20dB DC to 3000 MHz

NM-SF-20+



CASE STYLE: DJ1208

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

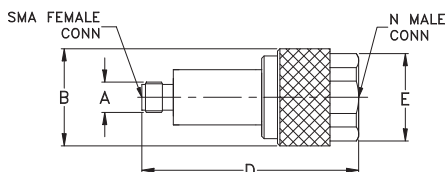
Features

- Wideband, DC to 3000 MHz
- Improved interface matching
- Excellent VSWR, 1.1:1 typ
- Rugged unibody construction

Applications

- Instrumentation
- Provides attenuation and connector type change
- Minimizes hardware

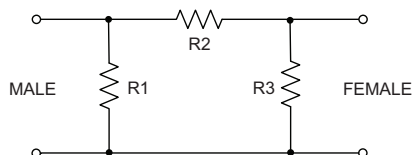
Outline Drawing



Outline Dimensions (inch/mm)

A	B	D	E	wt.
.25	.80	1.79	.72	grams
6.35	20.32	45.47	18.29	49.0

Electrical Schematic



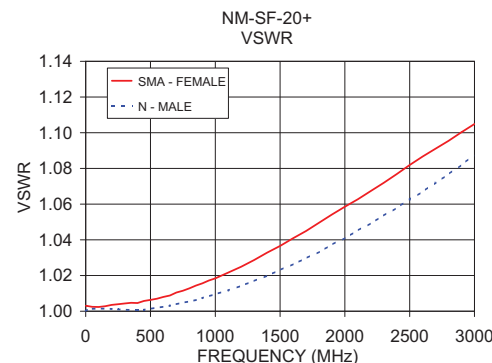
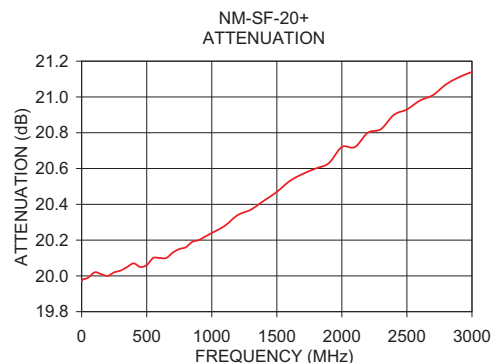
Electrical Specifications

FREQ. (MHz)	ATTENUATION (dB) Flatness *										VSWR (:1)						MAX. INPUT POWER (W)
	DC-0.5 GHz			DC-1 GHz		DC-2 GHz		DC-3 GHz			DC-1 GHz		DC-2 GHz		DC-3 GHz		
f _L - f _U	Typ.	Max.		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.		
DC-3000	20±0.3	0.05	0.15	0.1	0.3	0.4	0.6	0.6	1.0	1.01	1.20	1.04	1.20	1.09	1.25	0.5	

* Flatness defined as peak to peak attenuation over band divided by 2.

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	VSWR (:1)	
		SMA-FEMALE	N-MALE
1	19.97	1.00	1.00
10	19.98	1.00	1.00
100	20.02	1.00	1.00
300	20.03	1.00	1.00
500	20.06	1.01	1.00
750	20.15	1.01	1.00
1000	20.24	1.02	1.01
1200	20.34	1.03	1.01
1400	20.42	1.03	1.02
1600	20.53	1.04	1.03
1800	20.60	1.05	1.03
2000	20.72	1.06	1.04
2200	20.80	1.07	1.05
2500	20.93	1.08	1.06
2700	21.01	1.09	1.07
3000	21.14	1.10	1.09



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
IF/RF MICROWAVE COMPONENTS

For detailed performance specs
& shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

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