

SMA and N-Type Fixed Attenuators

Grant Ojeda, Product Manager
Cable Assemblies & Adapters

Overview

Amphenol RF is pleased to announce a new line of SMA and N-Type Straight Plug to Straight Jack Fixed Attenuators. These attenuators feature microwave grade resistors that consistently reduce power in applications under 2 Watts, with N-type also available up to 5 Watts. Amphenol RF attenuators offer flat attenuation across the 0-6 GHz frequency band. Hex flats on the body allow these attenuators to be easily torqued to the mating connector. Available in 1 through 10 dB for the SMA version and 3, 6, 10, 15, 20, and 30 dB for the N versions.

Features and benefits:

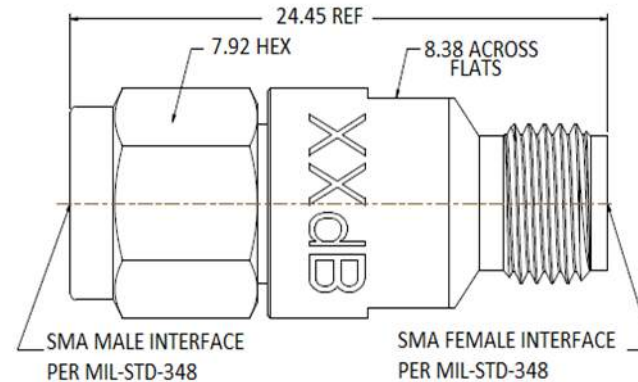
- Flat Attenuation
- 50 Ohm Impedance
- Frequency Range of DC to 6 GHz
- Durable PTFE Insulator
- Body Material and Plating;
 - Passivated Stainless Steel
- ROHS Compliant
- Industry Standard design



SMA Attenuator Performance

Attenuation Accuracy

dB	DC-4 GHz	4-6 GHz
1-3	±0.3	±0.5
4-6	±0.4	±0.5
7-10	±0.5	±0.5



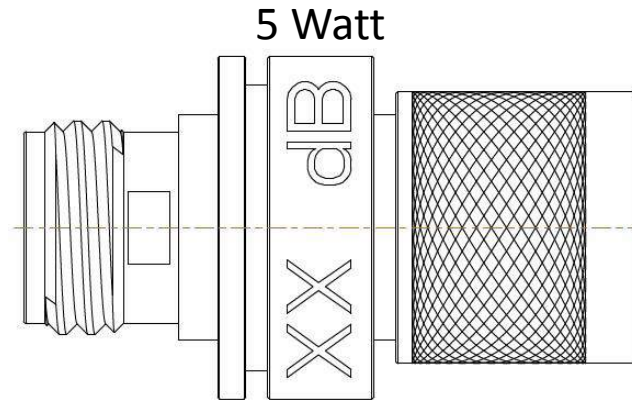
VSWR Max

dB	DC-2.5 GHz	2.5-4 GHz	4-6 GHz
1-3	1.15:1	1.20:1	1.25:1
4-6	1.15:1	1.20:1	1.25:1
7-10	1.15:1	1.25:1	1.30:1

N-Type Attenuator Performance

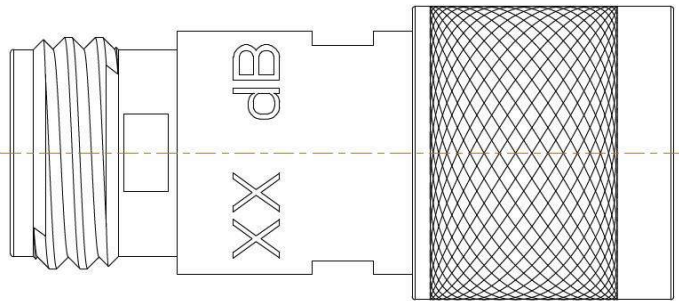
Attenuation Accuracy

dB	DC-18 GHz
1-6	± 0.3
7-20	± 0.5
21-40	± 1.0



Note: 5 Watt Attenuator features a heat sink ring to dissipate heat generated by higher wattage applications

2 Watt



VSWR Max

dB	DC-2.5 GHz	2.5-4 GHz	4-6 GHz
1-3	1.15:1	1.20:1	1.25:1
4-6	1.15:1	1.20:1	1.25:1
7-10	1.15:1	1.25:1	1.30:1

Applications

- To reduce the power level of an RF signal.
- To protect a circuit stage from receiving a RF signal that is too high.
- To precisely control a signal.



Ordering Information

- Part numbers:

- SMA Attenuators

Part Number	Attenuation Value (dB)
ATS-1M1F-01DB2W	1
ATS-1M1F-02DB2W	2
ATS-1M1F-03DB2W	3
ATS-1M1F-04DB2W	4
ATS-1M1F-05DB2W	5
ATS-1M1F-06DB2W	6
ATS-1M1F-07DB2W	7
ATS-1M1F-08DB2W	8
ATS-1M1F-09DB2W	9
ATS-1M1F-10DB2W	10

- N-Type Attenuators

Part Number	Attenuation Value (dB)	Power Rating (Watts)
ATS-2M2F-03DB2W	3	2
ATS-2M2F-06DB2W	6	2
ATS-2M2F-10DB2W	10	2
ATS-2M2F-15DB2W	15	2
ATS-2M2F-20DB2W	20	2
ATS-2M2F-30DB2W	30	2
ATS-2M2F-03DB5W	3	5
ATS-2M2F-06DB5W	6	5
ATS-2M2F-10DB5W	10	5
ATS-2M2F-15DB5W	15	5
ATS-2M2F-20DB5W	20	5
ATS-2M2F-30DB5W	30	5

- Available to order from Amphenol RF and in distribution.
- Sample inventory is available

Cross Reference

Amphenol RF	Cinch	Aeroflex/Inmet	Huber+Suhner	XMA
ATS-1M1F-01DB2W	141-3901-801	1AHC-1	6601_SMA-50-2	2082-6346-01
ATS-1M1F-02DB2W	141-3901-802	1AHC-2	6602_SMA-50-2	2082-6346-02
ATS-1M1F-03DB2W	141-3901-803	1AHC-3	6603_SMA-50-2	2082-6346-03
ATS-1M1F-06DB2W	141-3901-806	1AHC-6	6606_SMA-50-2	2082-6346-06
ATS-1M1F-10DB2W	141-3901-810	1AHC-10	6610_SMA-50-2	2082-6346-10

Note: Competitor cross reference at amphenolrf.com has been updated with these crosses. Go to <http://www.amphenolrf.com/competitor/product/search/> for details.

Resources

- Website Product Links:
 - [All Attenuators](#)
 - [SMA Attenuators](#)
 - [N-Type 2 Watt Attenuators](#)
 - [N-Type 5 Watt Attenuators](#)