

High Power Attenuator – 100 Watts, DC – 18.0 GHz

Connectors - Type N; 3.5 mm



Features

- Designed to meet environmental requirements of MIL-DTL-3933
- Rugged connector design
- Low intermodulation (LIM) option
- 1 Kilowatt peak power

Technical Specifications

Nominal Impedance	50 Ω	
Frequency Range	DC to 18.0 GHz	
Maximum Deviation Over Frequency		
Nominal ATTN (dB)	Deviation (dB)	
6	+/- 0.75	
10, 20, 30	+/- 1.00	
40	+/- 2.00	
Maximum SWR		
Frequency (GHz)	6dB	10, 20, 30, 40 dB
DC - 8	1.25	1.20
8 – 12.4	1.35	1.25
12.4 – 18	1.45	1.35
Power Rating		
<ul style="list-style-type: none"> - 100 W average, unidirectional at 25°C ambient. - Derated to 10 Watts at 125°C - 1 KW peak @ 5 μs pulse width & 1.25 % duty cycle. 		
Power Coefficient	< 0.00015 dB/dB/watt	
Temperature Coefficient	< 0.0004 dB/dB/°C	
Temperature Range	-55°C to 125°C	
3 rd Order Passive Intermodulation (PIM) Levels		
Nominal ATTN (dB)	Reflected	Through
10, 20, 30, 40	-100 dBc	-110 dBc

IM3 levels tested with two input signals @ 869 & 891 MHz with average carrier power levels of +43 dBm each.

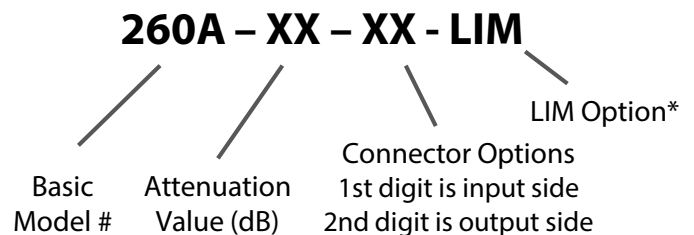
Mechanical Specifications

Construction	Black finned, aluminum alloy body; stainless steel connector; gold plated beryllium copper contacts	
Weight	420 grams (14.8 oz) maximum	
Connectors		
Options	Type	Description
1	3.5 mm Female	Mate nondestructively with SMA, 3.5 mm & SMK connectors.
2	3.5 mm Male	
3	N Female	Interface dimensions per MIL-STD 348 & IEC 60169-16. Mates non-destructively with MIL-PRF-39012 connector.
4	N Male	

TEST DATA

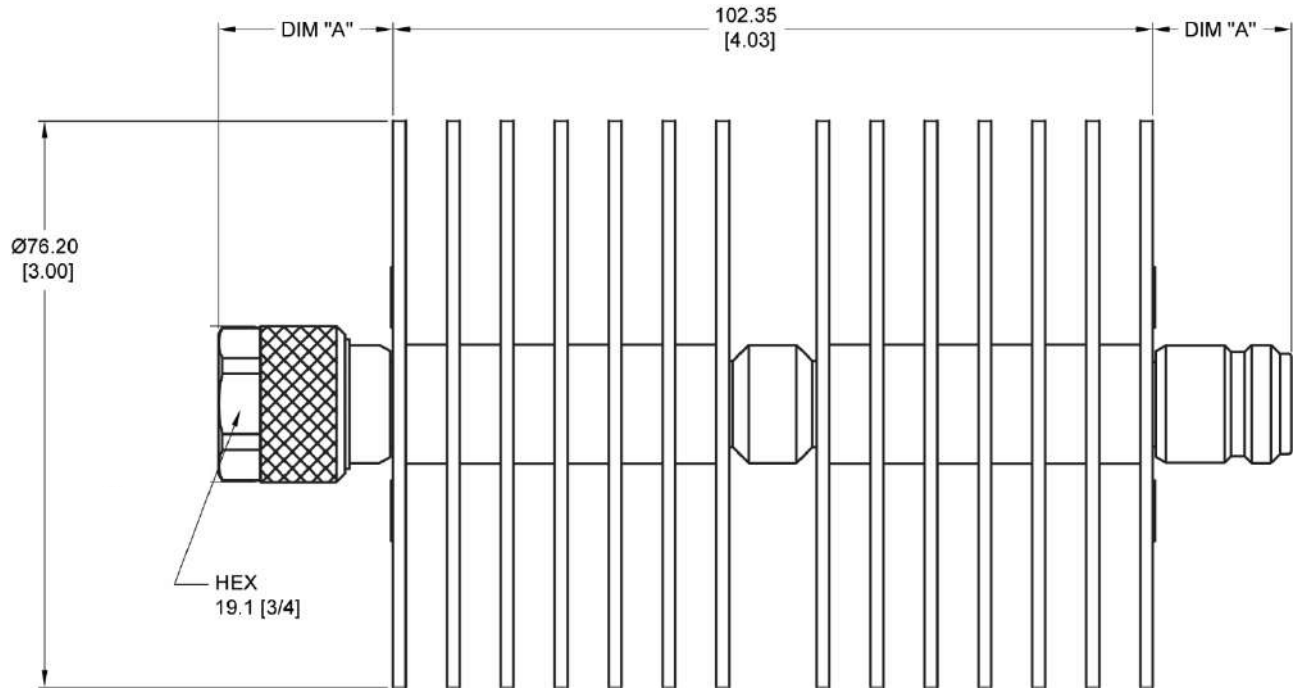
Swept data plots of attenuation and SWR from 50 MHz to 18 GHz

Model Number Description



* Add -LIM to entire model number for Low Intermodulation option.

Physical Dimensions



Connector Dimensions

Connector Option	Dim A mm (in)	Connector Option	Dim A mm (in)
N Male	24.0 (0.95)	N Female	19.0 (0.75)
3.5mm Male	14.2 (0.55)	3.5mm Female	13.2 (0.52)

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.