

## **Model 49, High Power, N Connectors**

## **☑** RoHS

Conduction/Convection Cooled

DC to 8.5 GHz 150 Watts

#### **Features**

- Quality connectors with special high temperature support beads
- Designed to meet environmental requirements of MIL-DTL-3933
- Flexible Mounting Position The units may be mounted in horizontal (fins up) or vertical position.

### **Specifications**

Nominal Impedance: 50  $\,\Omega$  Frequency Range: DC 8.5 to  $\,GHz$ 

#### **Maximum Deviation Over Frequency (db):**

Nominal	49		49-LIM	
ATTN (dB)	dc - 4 GHz	4 -8.5 GHz	dc - 4 GHz	4 -8.5 GHz
3, 6	<u>+</u> 0.50	<u>+</u> 1.00		
10, 20	± 0.40	<u>+</u> 0.75	<u>+</u> 0.70	<u>+</u> 1.25
30	<u>+</u> 0.40	<u>+</u> 0.75	<u>+</u> 0.70	<u>+</u> 1.75
40	<u>+</u> 0.50	<u>+</u> 1.00	<u>+</u> 0.70	<u>+</u> 1.75

#### **Maximum SWR:**

Frequency (GHz)	SWR
dc - 4	1.25
4 - 8.5	1.35

#### 3<sup>rd</sup> Order Intermodulation (49-Xx-Xx-Lim Only):

Reflected Levels (IM3), -100 & Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

#### Power Rating (mounted horizontally or vertically):

150 watts average (unidirectional) to 25°C ambient temperature, derated linearly to 15 watts @ 125°C. 5 kilowatt peak (5  $\mu$ sec pulse width; 1.5% duty cycle). Maximum power rating into output port is 25 watts average.

Power Coefficient: <0.0001 dB/dB/watt

**Temperature Coefficient:** < 0.0004 dB/dB/°C

**Temperature Range:** -55 °C to 125 °C

**Test Date:** Swept data plots of attenuation and SWR

from 50 MHz to 8.5 GHz supplied.



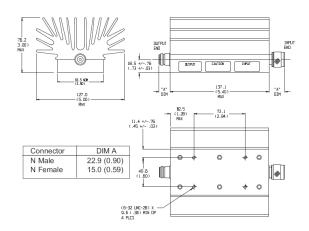
**Connectors:** Type N connectors per MIL-STD-348 interface dimensions - mate - nondestructively with MIL-C-39012 connectors.

<b>Options</b>	<u>Description</u>		
3	Type N, Female		
4	Type N. Male		

Construction: Aluminum alloy body, stainless steel connectors; gold plated beryllium copper female contacts or stainless steel male contacts. (-LIM option uses different connector and contact materials)

Weight: 1,600 g (3 lbs, 8 oz) maximum

#### **Physical Dimensions**





### **Fixed Coaxial Attenuators**



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#### **Model Number Description:**

Example: 49 - XX - XX - LIM

Basic Model Attenuation
Number Value (dB)

Connector Options:

1st digit is J1 side
2nd digit is J2 side

\*Add -LIM for Low Intermodulation option. Option only available in 10, 20, 30, and 40 dB and is not available through Express.

