

Low PIM Termination – 50 Watts, DC – 10 GHz

Connectors - Type N



Features

- Low Passive Intermodulation design (PIM)
- Smaller & lighter than coupler based designs
- Ideal for mobile infrastructure applications
- 100 % tested for IM3
- RoHS Compliant

Technical Specifications

Nominal Impedance	50 Ω
Frequency Range	DC to 10.0 GHz
Maximum SWR	
Frequency (GHz)	SWR
DC – 10	1.20
Power Rating	
- 50 watts at 25° C ambient - Derated linearly to 5W at 125° C - 5 KW peak @ 5 μsec pulse width & 0.05 % duty cycle	
Temperature Range	-55°C to 125°C
Reflected Passive Intermodulation (PIM) Level	
Maximum 3rd Order IM Magnitude (IM3)	-130 dBc
IM3 Levels	
IM3 levels tested with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.	

Mechanical Specifications

Construction	Black finned, aluminum alloy body; Low PIM connector construction.	
Weight	165g (5.82 oz) maximum	
Connectors		
Options	Type	Description
3	N Female	Interface dimensions per MIL-STD 348 & IEC 60169-16. Mates non-destructively with MIL-PRF-39012 connector.
4	N Male	
7	4.3-10 Female	Mates non-destructively with DIN EN 61169-54 & IEC 61169-54 interfaces.
8	4.3-10 Male	

Swept data plots SWR from 50 MHz to 10 GHz are available upon request.

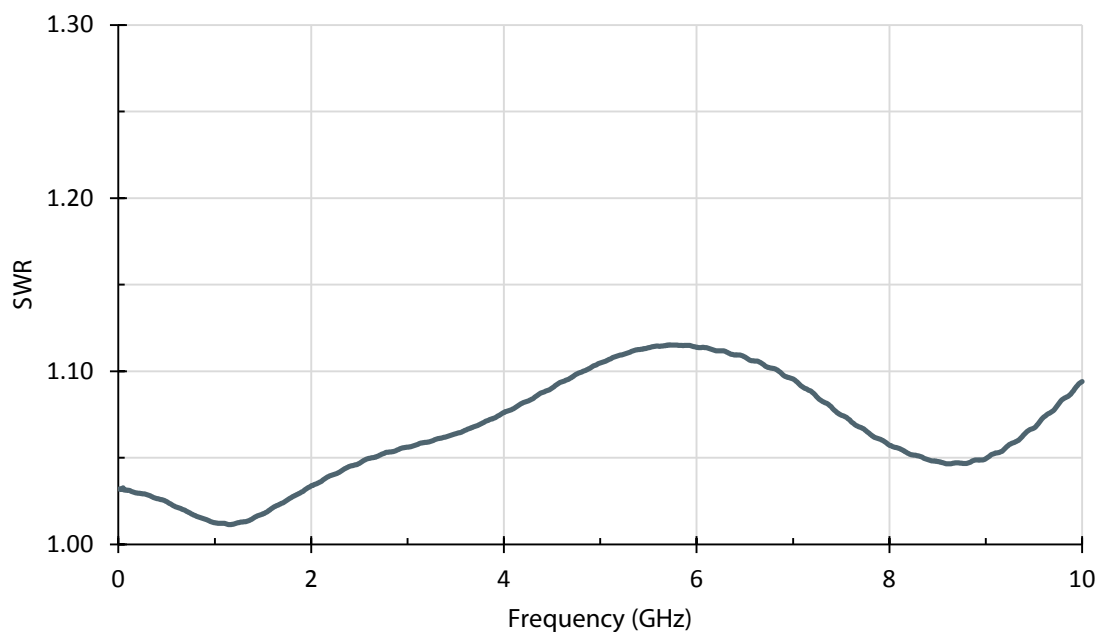
Model Number Description

1491 – X – LIM

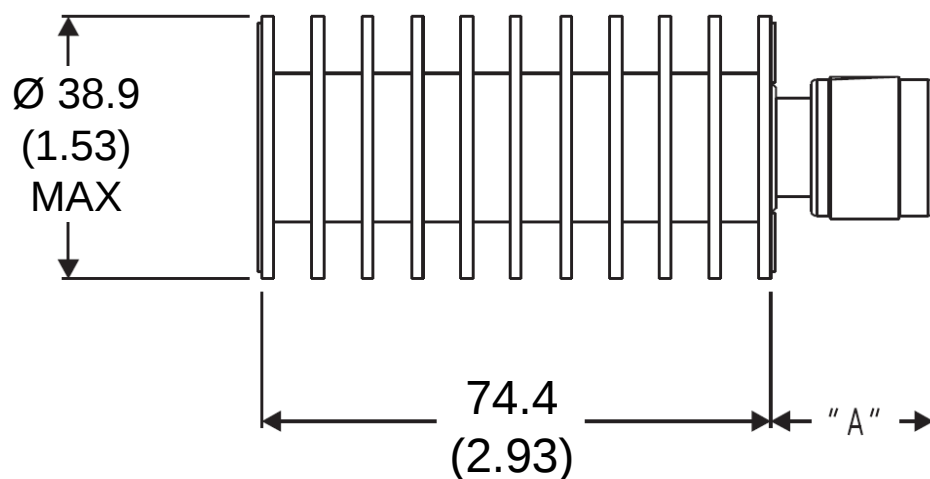
Basic
Model #

Connector
Option

Typical 1491-3- LIM SWR



Physical Dimensions



Connector Dimensions			
Connector Option	Dim A mm (in)	Connector Option	Dim A mm (in)
N Male	22.9 (0.90)	N Female	15 (0.59)
4.3-10 Male	23 (0.91)	4.3-10 Female	21 (0.83)

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