

Low PIM Attenuator – 50 Watts, DC – 10 GHz

Connectors - Type N



Features

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

Technical Specifications

| Nominal Impedance | 50 Ω | |
|--|-----------------------|-----------------------|
| Frequency Range | DC to 10.0 GHz | |
| Maximum Deviation Over Frequency | | |
| Nominal ATTN (dB) | DC – 6 GHz | 6 – 10 GHz |
| 3,6 | +/- 0.40 | +/- 0.75 |
| 10 | +/- 0.60 | +/- 0.75 |
| 40 | +/- 0.80 | +/- 1.20 |
| Typical SWR | | |
| Frequency (GHz) | SWR | |
| DC - 6 | 1.25 | |
| 6 – 10 | 1.30 | |
| Power Rating | | |
| <ul style="list-style-type: none"> - 50 watts, bidirectional at 25° C ambient - Derated to 5 Watts at 125°C - 5 KW peak @ 5μsec pulse width & 0.05 % duty cycle. | | |
| Power Coefficient | < 0.0003 dB/dB/watt | |
| Temperature Coefficient | < 0.0004 dB/dB/°C | |
| Temperature Range | -55°C to 125°C | |
| Passive Intermodulation (PIM) Levels* | | |
| Nominal ATTN (dB) | Forward IM3 (Typical) | Reverse IM3 (Maximum) |
| 3 | -130 dBc | -125 dBc |
| 6 | -140 dBc | -125 dBc |
| 10 | -140 dBc | -130 dBc |
| 20 | -150 dBc | -130 dBc |
| 30, 40 | -155 dBc | -130 dBc |

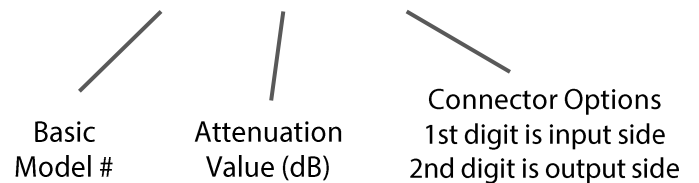
Mechanical Specifications

| Construction | Black finned, aluminum alloy body; Low PIM connector construction. | |
|--------------|--|--|
| Weight | 165 g (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 of attenuation and SWR from 50 MHz to 10 GHz are available upon request.

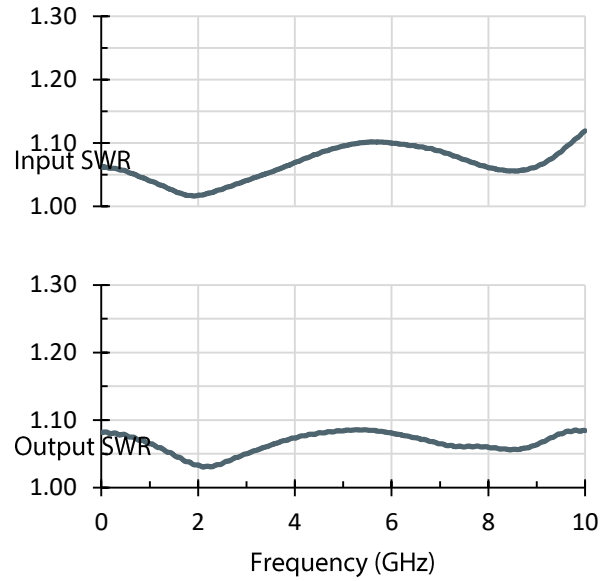
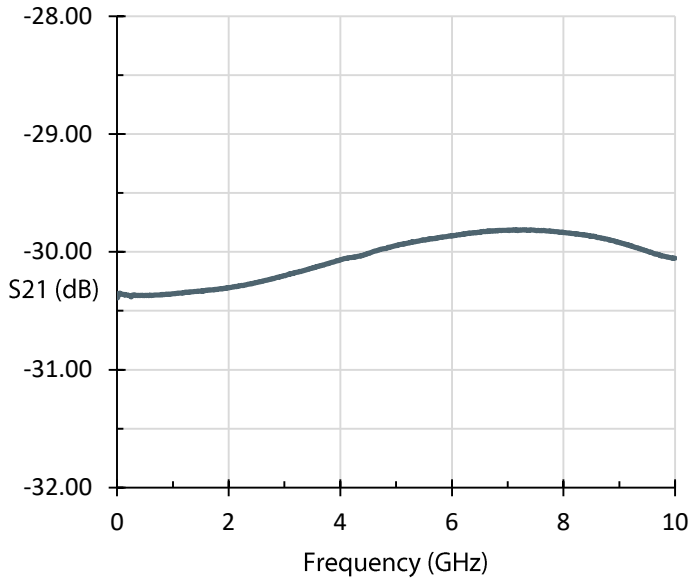
Model Number Description

264 – XX – XX – LIM

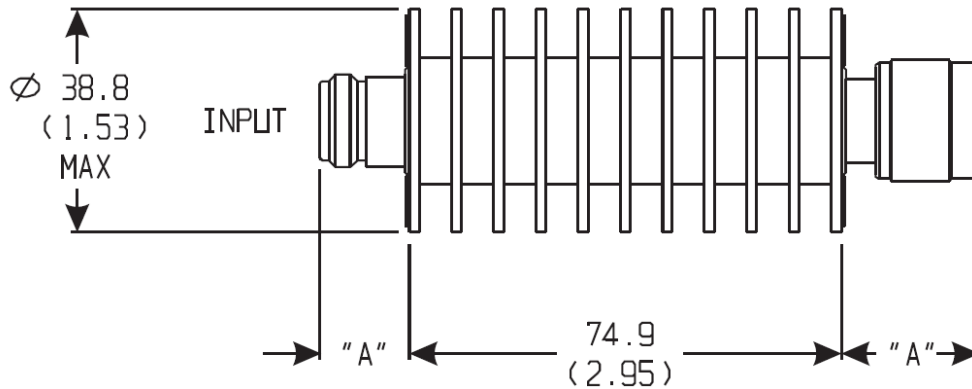


*IM3 levels tested with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

Typical 264-30-34-LIM Attenuation & SWR



Physical Dimensions



| Connector Dimensions | | | |
|----------------------|---------------|------------------|---------------|
| Connector Option | Dim A mm (in) | Connector Option | Dim A mm (in) |
| N Male | 23 (0.90) | N Female | 14 (0.60) |
| 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.