

Low PIM 40 dB Fixed Attenuator N-Type Female (Jack) to N-Type Female (Jack) 0.6 GHz to 6 GHz Rated to 200 Watts Anodized Aluminum 1.3:1 VSWR



FMAT7484-40

Features

- 0.6 to 6 GHz Frequency Range
- N-type Connectorized Design
- Attenuation 40 dB \pm 2 dB
- Max Power 200 Watt (CW)
- Typical VSWR of 1.3:1
- PIM rating -168 dBc typical

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

Fairview Microwave carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The 40 dB Fixed Attenuator FMAT7484-40 is rated to 200 Watts and operates from 0.6 to 6 GHz. The fixed attenuator offers 1.3:1 VSWR and low PIM (passive intermodulation) rating of -168 dBc typical. The versatile coaxial package uses N-Type female to N-Type female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---------|---------|---------|--------|
| Frequency Range | 0.6 | | 6 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 40 | | dB |
| Attenuation Accuracy | | 2 | | dB |
| VSWR | | 1.3:1 | | |
| Passive Intermodulation 2x43dBm | | -168 | -160 | dBc |
| Input Power, CW | | | 200 | Watts |
| Input Power, Peak 8% duty cycle, 20us PW | | | 2 | kWatts |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------------|
| Length | 6.69 in [169.93 mm] |
| Width/Diameter | 5.12 in [130.05 mm] |
| Height | 4.25 in [107.95 mm] |
| Weight | 1.88 lbs [852.75 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

Configuration

| | |
|--------|--------------------|
| Design | Fixed, Directional |
|--------|--------------------|

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| | |
|---------------|---------------|
| Design Type | Low PIM |
| Package Style | Connectorized |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------------|------------------------|
| Type | N Female | N Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

Environmental Specifications

Temperature

| | |
|-----------------|--------------------|
| Operating Range | -40 to +75 deg C |
| Storage Range | -50 to +85 deg C |
| Humidity | <95% |
| Shock | IEC 60068-2-27 |
| Vibration | IEC 60068-2-6-Fc |
| Altitude | <5000m |
| Thermal Shock | IEC 60068 -2-14-Na |

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

Low PIM 40 dB Fixed Attenuator N-Type Female (Jack) to N-Type Female (Jack) 0.6 GHz to 6 GHz Rated to 200 Watts Anodized Aluminum 1.3:1 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low PIM 40 dB Fixed Attenuator N-Type Female \(Jack\) to N-Type Female \(Jack\) 0.6 GHz to 6 GHz Rated to 200 Watts Anodized Aluminum 1.3:1 VSWR FMAT7484-40](#)

URL: <https://www.fairviewmicrowave.com/40db-fixed-attenuator-n-female-n-female-200-watts-fmat7484-40-p.aspx>

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FMAT7484-40 CAD Drawing

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