

Low PIM 30 dB Fixed Attenuator N-Type Female (Jack) to N-Type Female (Jack) 0.6 GHz to 6 GHz Rated to 100 Watts Anodized Aluminum 1.3:1 VSWR

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 30 dB Fixed Attenuator FMAT7482-30 is rated to 100 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.



Features:

- 0.6 to 6 GHz Frequency Range
- N-type Connectorized Design
- Attenuation 30 dB \pm 2 dB
- Max Power 100 Watt (CW)
- Typical VSWR of 1.3:1
- PIM rating -168 dBc typical

Applications:

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.6		6	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		2		dB
VSWR		1.3:1		
Passive Intermodulation 2x43dBm		-168	-160	dBc
Input Power, CW			100	Watts
Input Power, Peak 8% duty cycle, 20us PW			1	kWatts

Mechanical Specifications

Size

Length	6.69 in [169.93 mm]
Width/Diameter	5.12 in [130.05 mm]
Height	2.8 in [71.12 mm]
Weight	3.31 lbs [1.5 kg]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional
Design Type	Low PIM
Package Style	Connectorized

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Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & 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

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

Plotted and Other Data

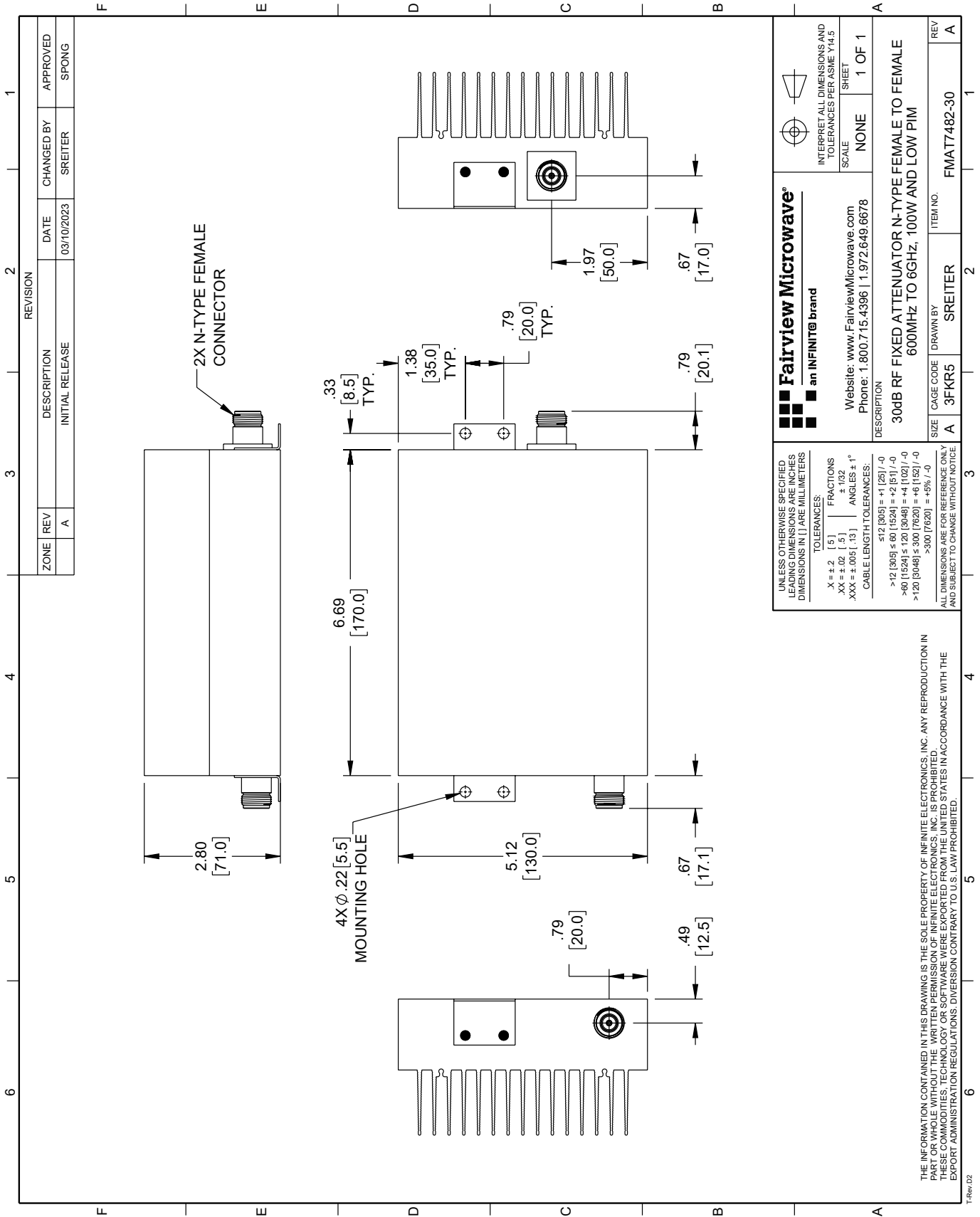
Notes:

Low PIM 30 dB Fixed Attenuator N-Type Female (Jack) to N-Type Female (Jack) 0.6 GHz to 6 GHz Rated to 100 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 30 dB Fixed Attenuator N-Type Female \(Jack\) to N-Type Female \(Jack\) 0.6 GHz to 6 GHz Rated to 100 Watts Anodized Aluminum 1.3:1 VSWR FMAT7482-30](#)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-female-n-female-100-watts-fmat7482-30-p.aspx>

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS
 .XX = ±.02 [.5] ±.132 ANGLES ± 1°
 .XXX = ±.005 [.13] ±.05

CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

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