



Mini-Circuits®

MINIATURE CERAMIC

# Fixed Attenuator

**PAT-30+**

50Ω 1 W 30 dB DC to 7 GHz

## FEATURES

- Wideband, DC to 7 GHz
- Excellent VSWR Through Entire Band
- Miniature Size
- Aqueous Washable

## APPLICATIONS

- Power Leveling
- Impedance Match Improvement



Generic photo used for illustration purposes only

CASE STYLE: AF320

### +RoHS Compliant

The +Suffix identifies RoHS Compliance.  
See our website for methodologies and qualifications

## ELECTRICAL SPECIFICATIONS AT +25°C

| Parameter                          | Condition (GHz) | Min. | Typ.   | Max. | Unit |
|------------------------------------|-----------------|------|--------|------|------|
| Frequency Range                    |                 | DC   |        | 7    | GHz  |
| Attenuation, Nominal               |                 |      | 30±1.7 |      | dB   |
| Attenuation, Flatness <sup>1</sup> | DC - 1          |      |        | 0.4  | dB   |
|                                    | DC - 2.5        |      |        | 0.9  |      |
|                                    | DC - 7          |      |        | 2.8  |      |
| VSWR                               | DC - 1          |      |        | 1.4  | :1   |
|                                    | DC - 2.5        |      |        | 1.4  |      |
|                                    | DC - 7          |      |        | 1.5  |      |
| Input Power <sup>2</sup>           |                 |      |        | 1.0  | W    |

1. Flatness = variation over band divided by 2.

2. RF power at +25°C case temperature: 1 Watt. Derate linearly to 0.1 Watt at +100°C.

## ABSOLUTE MAXIMUM RATINGS

| Parameter             | Ratings         |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +100°C |
| Storage Temperature   | -55°C to +100°C |

Permanent damage may occur if any of these limits are exceeded.

REV. J  
ECO-024219  
PAT-30+  
MCL NY  
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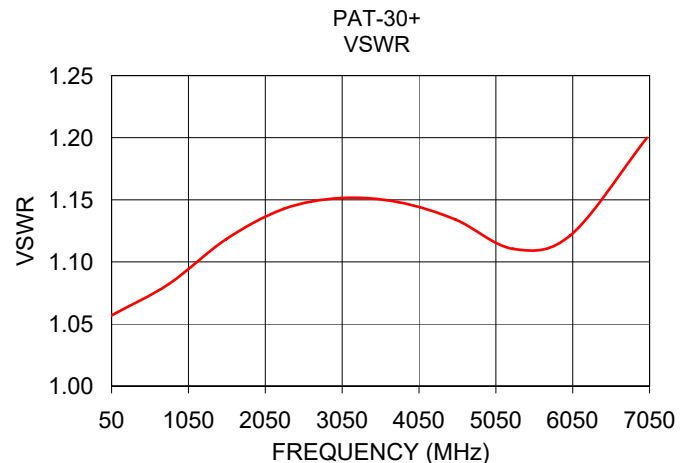
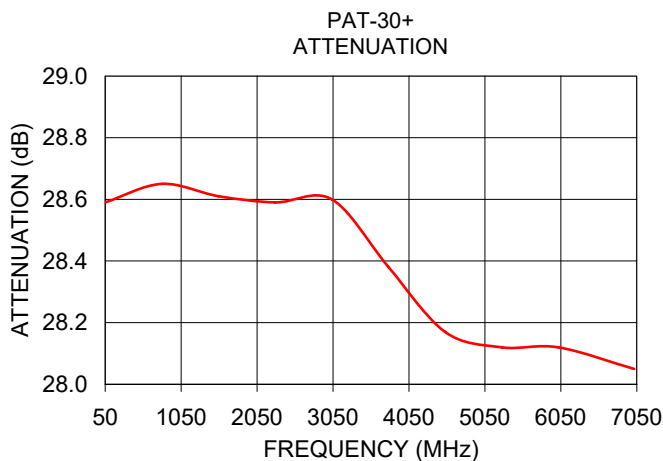
# Fixed Attenuator

PAT-30+

50Ω 1 W 30 dB DC to 2.5 GHz

## TYPICAL PERFORMANCE DATA AND CHARTS

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 50.00           | 28.59            | 1.06      |
| 796.25          | 28.65            | 1.08      |
| 1542.50         | 28.61            | 1.12      |
| 2288.75         | 28.59            | 1.14      |
| 3035.00         | 28.60            | 1.15      |
| 3781.25         | 28.38            | 1.15      |
| 4527.50         | 28.17            | 1.13      |
| 5273.75         | 28.12            | 1.11      |
| 6020.00         | 28.12            | 1.12      |
| 7015.00         | 28.05            | 1.20      |



### NOTES

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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