



Mini-Circuits®

COAXIAL

Fixed Attenuator

VAT-7W2+

50Ω 2 W 7 dB DC to 6 GHz SMA Female

FEATURES

- Wideband coverage, DC to 6 GHz
- 2 Watt Rating
- Rugged Unibody Construction
- Off-The-Shelf Availability
- Very Low Cost

APPLICATIONS

- Impedance Matching
- Signal Level Adjustment



Generic photo used for illustration purposes only

Model No.	VAT-7W2+
Case Style	DC1066
Connectors	SMA Female

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		6	GHz
Attenuation, Nominal			7±0.3		dB
Attenuation ¹ , Flatness ²	DC - 3		0.25		dB
	3 - 5		0.15		
	5 - 6		0.10		
	DC - 6		0.45		
VSWR	DC - 3		1.10	1.20	:1
	3 - 5		1.25	1.40	
	5 - 6		1.40		
Input Power				2.0	W

1. Attenuation varies by 0.3 dB max. over temperature.

2. Flatness = variation over band divided by 2.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-45°C to +100°C
Storage Temperature	-55°C to +100°C

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

REV. D
ECO-024278
VAT-7W2+
MCL NY
250122





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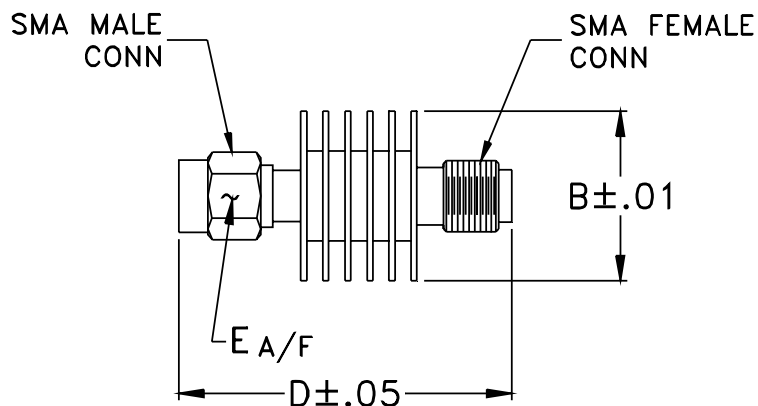
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OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch mm)

B	D	E	wt
.74	1.43	.312	grams
18.80	36.32	7.92	11.4



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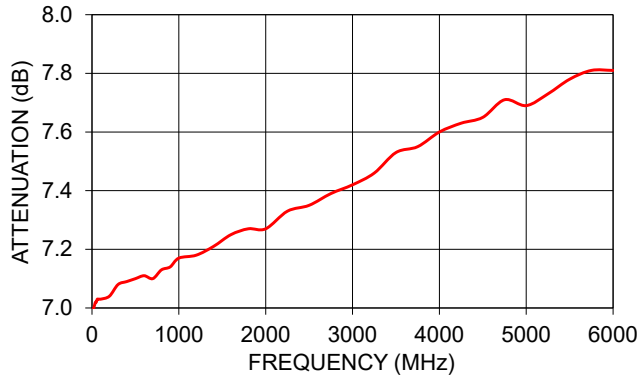
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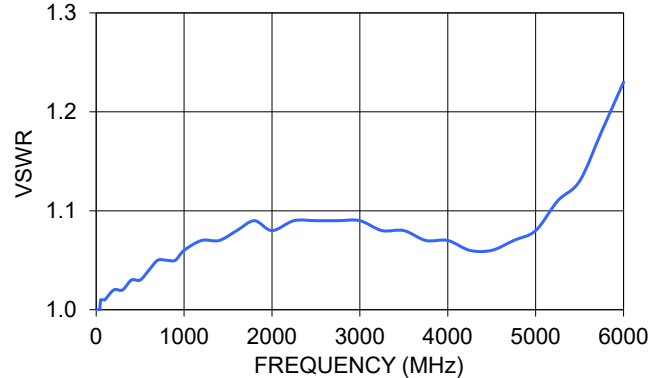
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	6.99	1.00
100.00	7.03	1.01
1000.00	7.17	1.06
1200.00	7.18	1.07
2000.00	7.27	1.08
3000.00	7.42	1.09
4000.00	7.60	1.07
5000.00	7.69	1.08
5500.00	7.78	1.13
6000.00	7.81	1.23

VAT-7W2+
ATTENUATION



VAT-7W2+
VSWR



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.
- The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

