



Mini-Circuits®

COAXIAL

Fixed Attenuator

VAT-15W2+

50Ω 2 W 15 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-15W2+
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			15±0.3		dB
Attenuation ¹ , Flatness ²	DC - 3		0.20		dB
	3 - 5		0.30		
	5 - 6		0.30		
	DC - 6		0.80		
VSWR	DC - 3		1.30	1.50	:1
	3 - 5		1.60	1.80	
	5 - 6		1.75		
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-15W2+
MCL NY
250122





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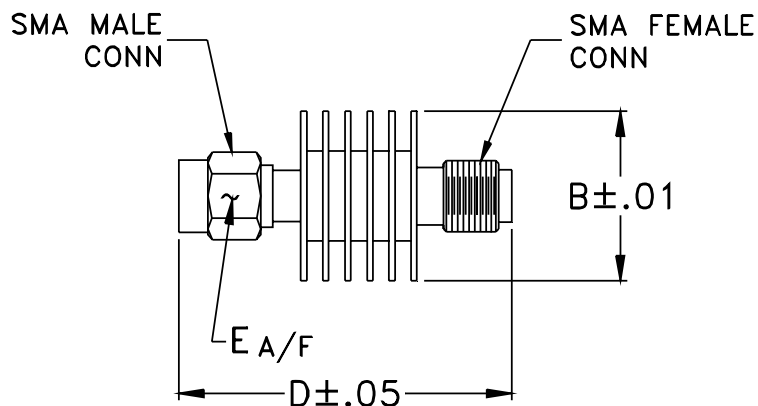
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OUTLINE DRAWING



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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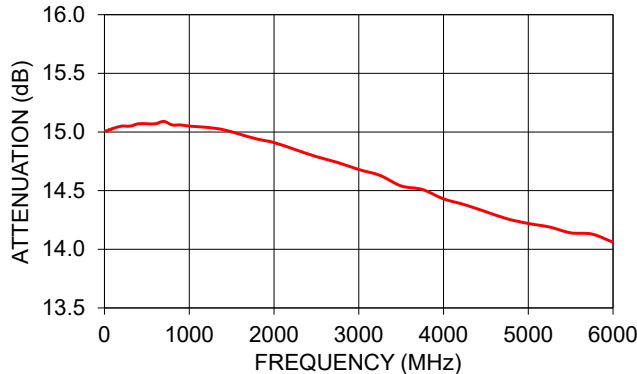
VAT-15W2+

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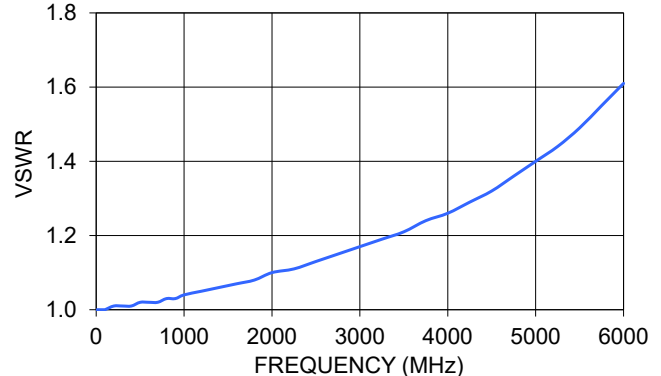
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	15.01	1.00
100.00	15.03	1.00
1000.00	15.05	1.04
2000.00	14.91	1.10
3000.00	14.68	1.17
4000.00	14.43	1.26
4500.00	14.32	1.32
5000.00	14.22	1.40
5500.00	14.14	1.49
6000.00	14.06	1.61

VAT-15W2+
ATTENUATION



VAT-15W2+
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



Fixed Attenuator

VAT-15W2+

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION (dB)	RETURN LOSS (dB)
10.00	15.01	46.06
100.00	15.03	46.06
1000.00	15.05	34.15
2000.00	14.91	26.44
3000.00	14.68	22.12
4000.00	14.43	18.78
4500.00	14.32	17.21
5000.00	14.22	15.56
5500.00	14.14	14.12
6000.00	14.06	12.63

REV. X1
VAT-15W2+
061109
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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

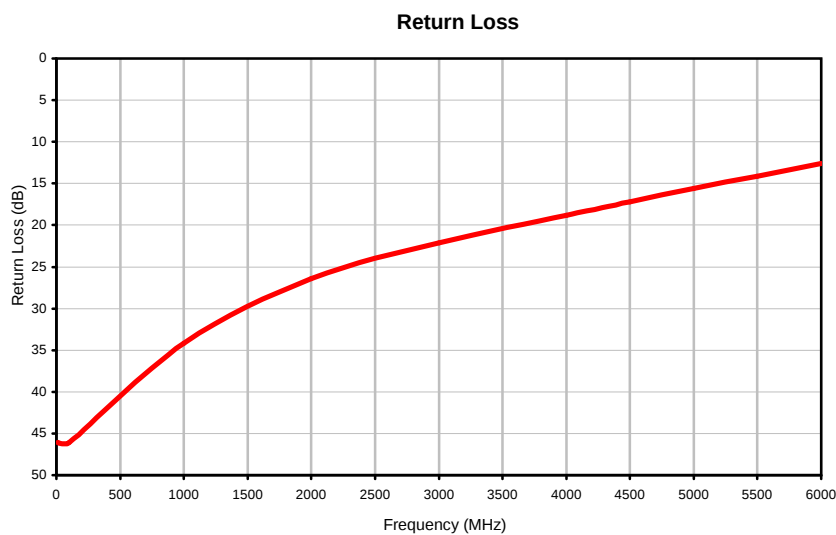
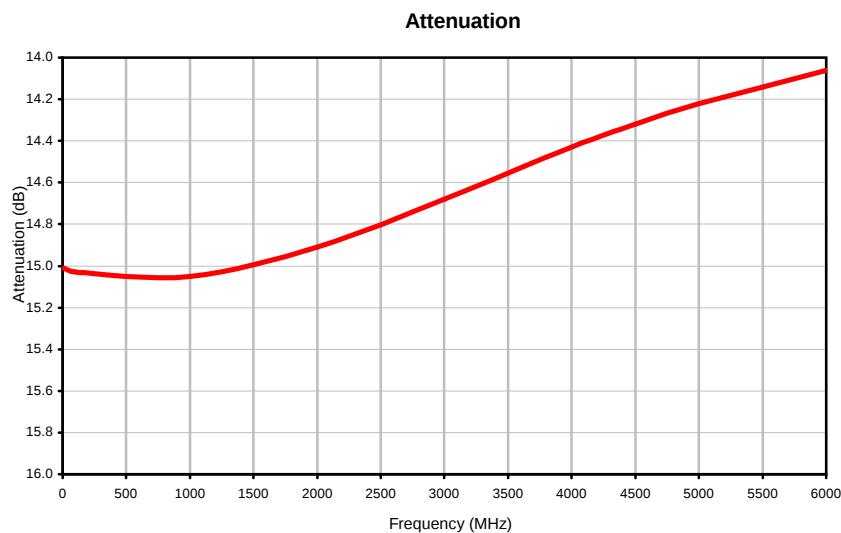
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

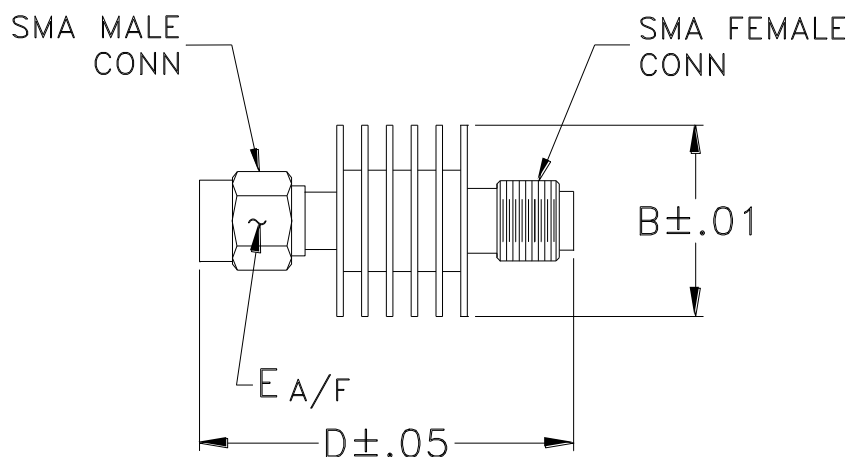


Typical Performance Curves



Outline Dimensions

DC1066



CASE#	A	B	C	D	E	WT. GRAMS
DC1066	--	.74 (18.80)	--	1.43 (36.32)	.312 (7.92)	11.4

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

1. Case material: Aluminum alloy.
2. Case finish: Black anodize.



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Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-45° to 100° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I