



DESIGNER'S KIT K1-VAT-A+

# Fixed Attenuators



Mini-Circuits

50Ω DC to 6 GHz



## FEATURES

- Wideband, 50Ω
- Input power up to 2W Max.
- 3, 6, 10, 20, 30 dB attenuation
- SMA Male and Female connectors
- Excellent VSWR, 1.20:1 to 1.40:1 typ.
- Excellent flatness, 0.30 to 1.30 dB typ.
- Length less than 1.5"

MINI-CIRCUITS DESIGNER'S KITS  
**SPEED UP**  
THE SOLUTION



## PRODUCT OVERVIEW

K1-VAT-A+ is a designer's kit consisting of five different attenuator models in the VAT-A+ family. There is one unit per model for a total of five units. Mini-Circuits' VAT-A series are fixed attenuators operating from DC to 6000 MHz with excellent attenuation flatness. This attenuator series supports testing and measurement applications. Precise performance, excellent VSWR and rugged unibody construction make these models an ideal solution for systems requiring precise attenuation.

## K1-VAT-A+ ELECTRICAL SPECIFICATIONS

(5 models, 1 of each, 5 total)

Model No. <sup>1</sup>	Frequency (GHz) $f_L$ - $f_U$	Attenuation <sup>2</sup> Flatness <sup>3</sup> (dB)					VSWR (:1)			Input Power <sup>5</sup> (W) Max.
		Nom. <sup>4</sup>	DC-3 GHz	3-5 GHz	5-6 GHz	DC-6 GHz	DC-3 GHz	3-5 GHz	5-6 GHz	
			Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	
VAT-3A+	DC-6	3 ± 0.3	0.25	0.15	0.15	0.30	1.20	1.25	1.40	2.0
VAT-6A+	DC-6	6 ± 0.3	0.25	0.15	0.10	0.45	1.20	1.25	1.20	1.6
VAT-10A+	DC-6	10 ± 0.3	0.25	0.20	0.15	0.35	1.20	1.20	1.40	1.7
VAT-20A+	DC-6	20 ± 0.3	0.40	0.40	0.35	0.70	1.20	1.20	1.20	0.8
VAT-30A+	DC-6	30 ± 0.3	0.70	0.70	0.30	1.30	1.20	1.20	1.30	1.0

1. See individual model data sheets for more info.

2. Attenuation varies by 0.3 dB max over temperature.

3. Flatness = variation over band divided by 2.

4. Nominal attenuation at 10 MHz.

5. RF Power at 25°C. Check individual model data sheet for derated power at 85°C.

Mini-Circuits

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