



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. ¹	Frequency (GHz) f_L - f_U	Attenuation ² Flatness ³ (dB)					VSWR (:1)			Input Power ⁵ (W) Max.
		Nom. ⁴	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.

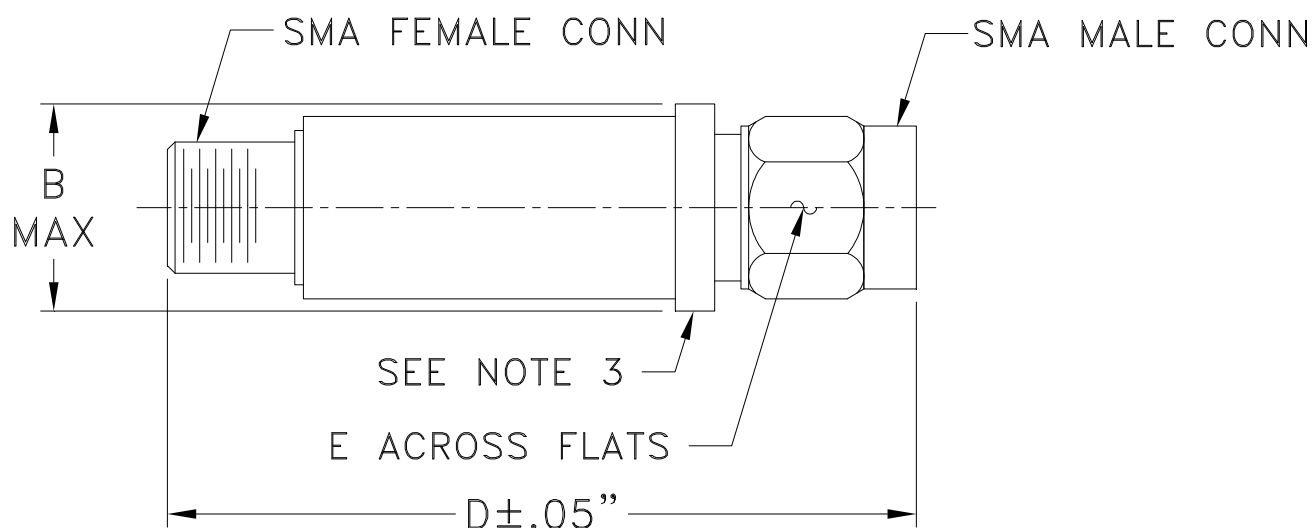
5. RF Power at 25°C. Check individual model data sheet for derated power at 85°C.

Mini-Circuits

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REV. OR
ECO-015321
K1-VAT-A+
MCL NY
221011

Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF704	--	.410 (10.41)	--	1.43 (36.32)	.312 (7.92)	10.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .04; 3Pl. ± .030

Notes:

1. Case material: Stainless steel.
2. Case finish: Gold plated.
3. Round Flange may have .312 Across Flats in some models.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS