

Broadband Miniature Attenuators



RLC Electronics' Broadband Miniature Attenuators offer precision impedance matching and bi-directional handling over the extremely broad frequency of DC to 18 GHz. They are also available in the reduced frequency ranges of DC to 12.4 GHz, DC-8 GHz, and DC-1.5 GHz. These miniature microwave structures are uniquely constructed resistive film

elements combined with precision connectors meeting the full requirements of MIL-C-39012. Units can be supplied in standard attenuation values as listed or other values for specific requirements. Three combinations of connectors are available in the standard models.

Specifications

A-1,2,3,4

Model NO.	Freq. (GHz)	Attenuation Value (dB)	Accuracy ($\pm$ dB)	VSWR Max.	Model NO.	Freq. (GHz)	Attenuation Value (dB)	Accuracy ($\pm$ dB)	VSWR Max.
A-1	DC-1.5	1 thru 6	.3	1.20	A-12	DC-12.4	1 thru 6	.3	1.35
A-1		7 thru 20	.5	1.20	A-12		7 thru 20	.5	1.35
A-1		21 thru 30	.8	1.20	A-12		21 thru 30	.8	1.35
A-8	DC-8	1 thru 6	.3	1.25	A-18	DC-18	1 thru 6	.3	1.35
A-8		7 thru 20	.5	1.25	A-18		7 thru 20	.5	1.35
A-8		21 thru 30	.8	1.25	A-18		21 thru 30	1.0	1.35

Power Rating: 2 watts avg. at 25°C. Derated linearly to 0.5 watts at 125°C

Impedance: 50 ohms

Connectors: SMA male or female, N male or female

To designate the attenuator desired use:

(1) 1, 8, 12, 18 for 1.5, 8, 12.4 and 18 GHz

(2) 3, 6, etc. for attenuation value

(3) R for SMA, N for Type N: Male and female is standard.

Weight: 0.4 oz. for SMA, 2 oz. for Type N

Material: Stainless Steel

Environment: MIL-A-3933

(4) F for 2 female connectors, M for 2 male connectors.

Example: A-18-20-R is a DC-18 GHz, 20 dB attenuator with SMA male and female connectors.

Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc., can be furnished upon request. Specifications subject to change without notice.

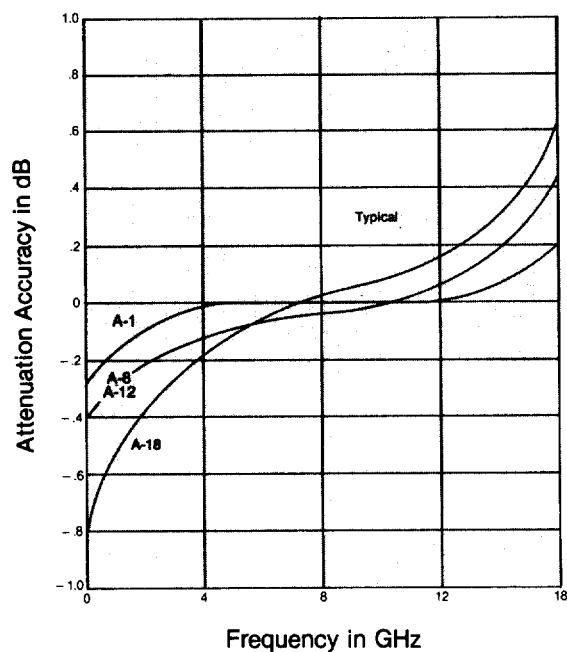


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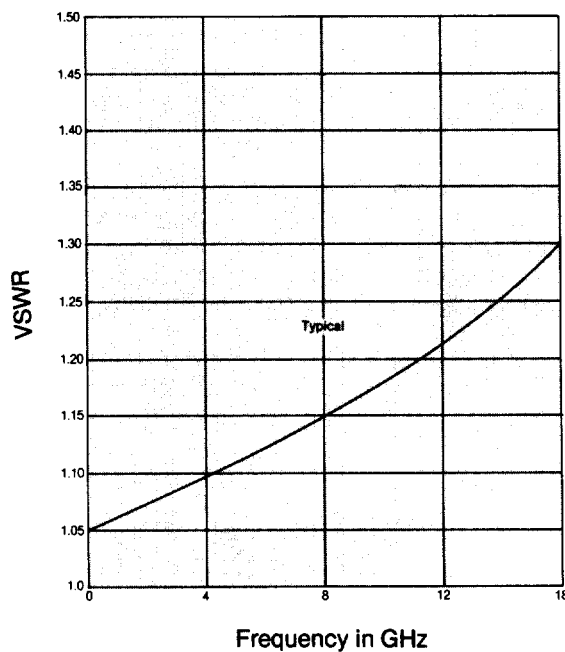
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Typical Operating Curves

Attenuation Accuracy Vs. Frequency

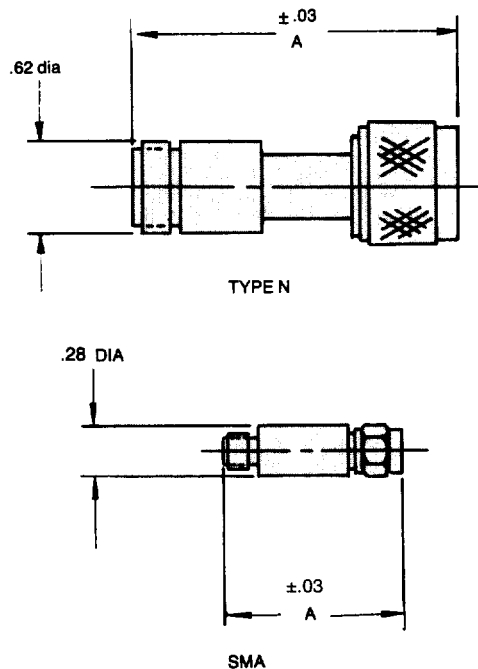


VSWR Vs. Frequency



Outlines

Model No.	A dimension					
	R	RM	RF	N	NM	NF
A-1-thru A-12-	.86	.98	.92	1.77	1.70	1.86
A-13-thru A-30-	.98	1.12	1.05	1.77	1.70	1.86



Tolerances unless otherwise specified are: .xx ± .02; .xxx, ± .005.

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