Continuously Variable Coaxial Attenuators

RLC Electronics' Continuously Variable Coaxial Attenuators offer wide bandwidths for microwave applications where continuous adjustment of signal level is required with low insertion loss and good impedance matching. Unique mechanical packaging with a locking, non-translating shaft allow a compact assembly. The slab line construction of the transmission line and shaped, proprietary lossy material give flat response over a wide range of attenuation.

Specifications

AV-1-2-3

Model Number	Frequency Range (GHz)	Attenuation Range (dB)(Min.)	VSWR (Max.)	Insertion Loss (dB) (Max)
AV-0915	.95 – 1.5	10	1.5	0.3
AV-1020	1.0 – 2.0	10	1.5	0.4
AV-1922	1.9 – 2.2	20	1.3	0.4
AV-2040	2.0 – 4.0	25	1.5	0.5
AV-3060	3.0 – 6.0	20	1.5	0.5
AV-3742	3.7 – 4.2	20	1.4	0.5
AV-4080	4.0 - 8.0	20	1.5	0.5
AV-5964	5.9 - 6.4	20	1.4	0.5
AV-70124	7.0 - 12.4	20	1.5	0.5
AV-10150	10.0 - 15.0	20	1.5	0.5
AV-12180	12.4 - 18.0	20	1.5	0.5
AV-18265	18.0 - 26.5	20	1.7	0.7
AV-26540	26.5 - 40.0	20	2.0	1.0

Impedance: 50 Ohms
Connectors: Type N*, TNC*, or SMA Female
Shaft: Locking screwdriver adjust or panel mount
Temperature Range: -55 to +85°C

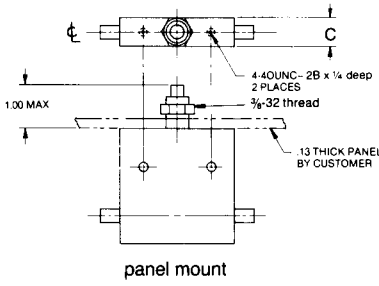
Attenuation vs Frequency: ± 10% of max attenuation
*Type N and TNC not recommended for use above 12.4 GHz

To designate attenuator desired use:

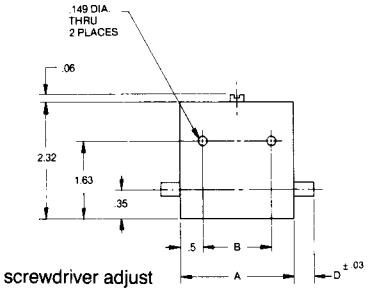
(1) 2040,3060 for Model Number
(2) N,T(TNC), R(SMA) for connectors
(3) P for panel mount
(4) L for locking nut

Example: AV-4080-R-P-L is a 4.0 to 8.0 GHz attenuator with SMA connectors, panel mount with locking nut

Outline Drawing



panel mount



screwdriver adjust

MODEL	A	B	C
AV-0915	4.00	3.00	.75
AV-1020	4.00	3.00	.75
AV-1922	3.25	2.25	.50
AV-2040	2.75	1.75	.50
AV-3060	2.75	1.75	.50
AV- 3742	2.00	1.00	.50
AV-4080	2.75	1.75	.50
AV-5964	2.00	1.00	.50
AV-70124	2.00	1.00	.50
AV-10150	2.00	1.00	.50
AV-12180	2.00	1.00	.50
AV-18265	Figure 1		
AV-26540	Figure 1		

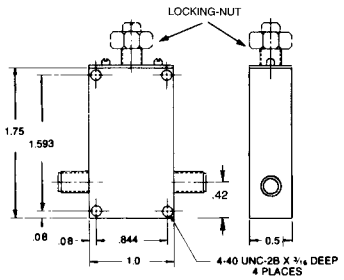


Figure 1
AV-18265 and AV-26540

CONNECTOR	D
N	.94
TNC	.58
SMA	.30

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

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