



**The Name for
Attenuators**

STANDARD STEP ATTENUATORS V Series

Alan Industries' V Series of Step Attenuators offers excellent electrical specifications over the DC - 2 GHz frequency range and is available in several attenuation ranges in either 50 or 75 Ohm impedance as standard "off-the-shelf" attenuators. This series employs an index mechanism that will provide 250,000 cycles operational life and are of rugged aluminum construction. Each unit is supplied with index stops, knobs and provisions to panel mount the device with up to four 8-32 UNC screws. This series was designed with flexibility. Special requirements can be adapted at an economical cost.



Alan

Industries, Inc.

745 Greenway Drive • Columbus, Indiana 47201 • USA
800-423-5190 or 812-372-8869 • Fax: 812-372-5909
www.alanindustries.com • sales@alanindustries.com



**The Name for
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V Series

50 OHM ELECTRICAL SPECIFICATIONS

MODEL		50V1	50V10	50V70	50V100
ATTENUATION RANGE		0 - 1.0 dB	0 - 10 dB	0 - 70 dB	0 - 100 dB
ATTENUATION STEPS		0.1 dB	1.0 dB	10 dB	
FREQUENCY RANGE		DC - 1 GHz	DC - 2 GHz		DC - 1 GHz
IMPEDANCE		50 Ohm			
ACCURACY	DC - 0.5GHz:	± 0.03 dB	± 0.2 dB	± 0.5 dB	± 1.0 dB
	0.5 - 1 GHz:	± 0.05 dB	± 0.3 dB	± 1.0 dB	0-80: ± 1.0 dB 80-100: ± 2%
	1 - 2 GHz:	N/A	± 0.4 dB	± 1.5 dB	N/A
SWR MAXIMUM	DC - 0.5GHz:	1.1:1			
	0.5 - 1 GHz:	1.2:1			
	1 - 2 GHz:	N/A	1.4:1		N/A
INSERTION LOSS MAXIMUM	DC - 0.5GHz:	0.6 dB	0.1 dB		
	0.5 - 1 GHz:	0.7 dB	0.3 dB		
	1 - 2 GHz:	N/A	0.4 dB		N/A
AVERAGE POWER		1.0 Watt		0.5 Watt	
DIMENSIONAL DRAWING		A		B	
TEMPERATURE RANGE		-20° C to +125° C			
CONNECTORS		BNC, N, SMA, TNC			
MOUNTING		Panel Mount standard, Bench-Top bracket optional			
RoHS COMPLIANCE		RoHS Compliant upon request			

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**The Name for
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75 OHM ELECTRICAL SPECIFICATIONS

MODEL		75V1	75V10	75V70
ATTENUATION RANGE		0 - 1.0 dB	0 - 10 dB	0 - 70 dB
ATTENUATION STEPS		0.1 dB	1.0 dB	10 dB
FREQUENCY RANGE		DC - 1 GHz		
IMPEDANCE		75 Ohm		
ACCURACY	DC - 0.5 GHz	± 0.03 dB	± 0.2 dB	± 0.5 dB
	0.5 GHz - 1 GHz	± 0.05 dB	± 0.3 dB	± 0.75 dB
SWR	DC - 0.5 GHz	1.15:1		
MAXIMUM	0.5 GHz - 1 GHz	1.2:1		1.3:1
INSERTION LOSS	DC - 0.5 GHz	0.6 dB		0.1 dB
MAXIMUM	0.5 GHz - 1 GHz	0.8 dB		0.3 dB
AVERAGE POWER		1.0 Watt		0.5 Watt
DIMENSIONAL DRAWING		A		B
TEMPERATURE RANGE		-20° C to +125° C		
CONNECTORS		BNC, N, F		
MOUNTING		Panel Mount standard Bench-Top bracket optional		
RoHS COMPLIANCE		RoHS Compliant upon request		

TO ORDER SPECIFY: Impedance, Category (V), Total Attenuation Range, and Connector, add -BT for Bench-Top bracket. For example, to order a 50 Ohm unit with total attenuation of 70 dB with SMA connectors, order Alan Model 50V70 SMA

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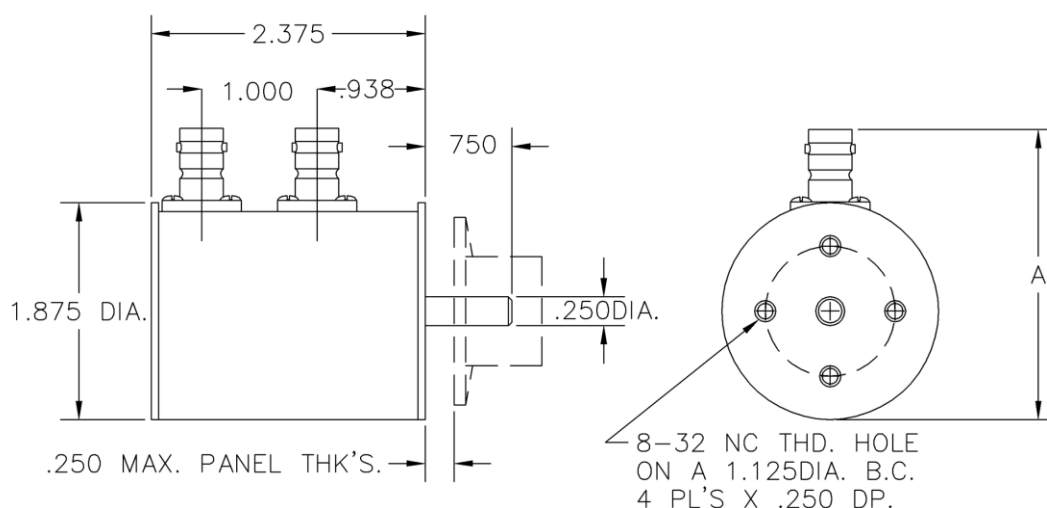


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V Series

DIMENSIONAL DRAWING A

CONNECTOR	BNC	F	N	SMA	TNC
DIMENSION A	2.520	2.470	2.790	2.180	2.520



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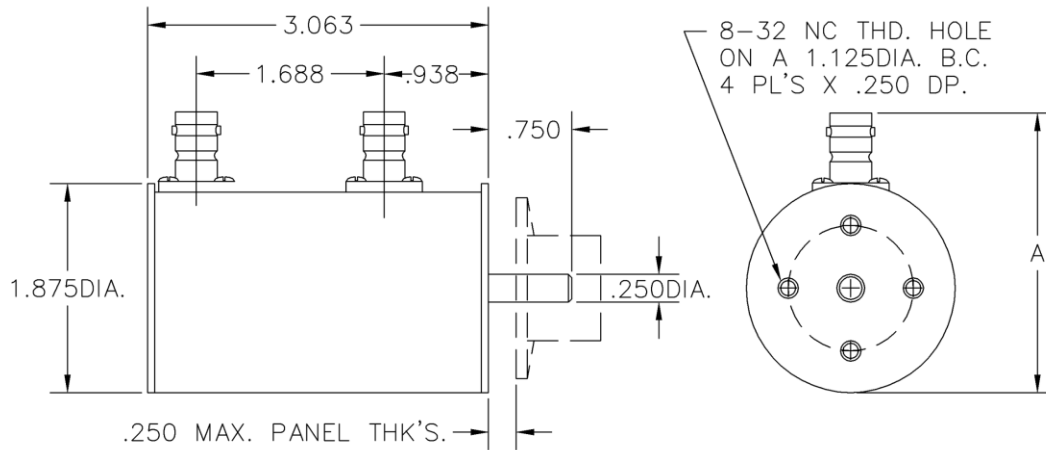


The Name for
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DIMENSIONAL DRAWING B

CONNECTOR	BNC	F	N	SMA	TNC
DIMENSION A	2.520	2.470	2.790	2.180	2.520



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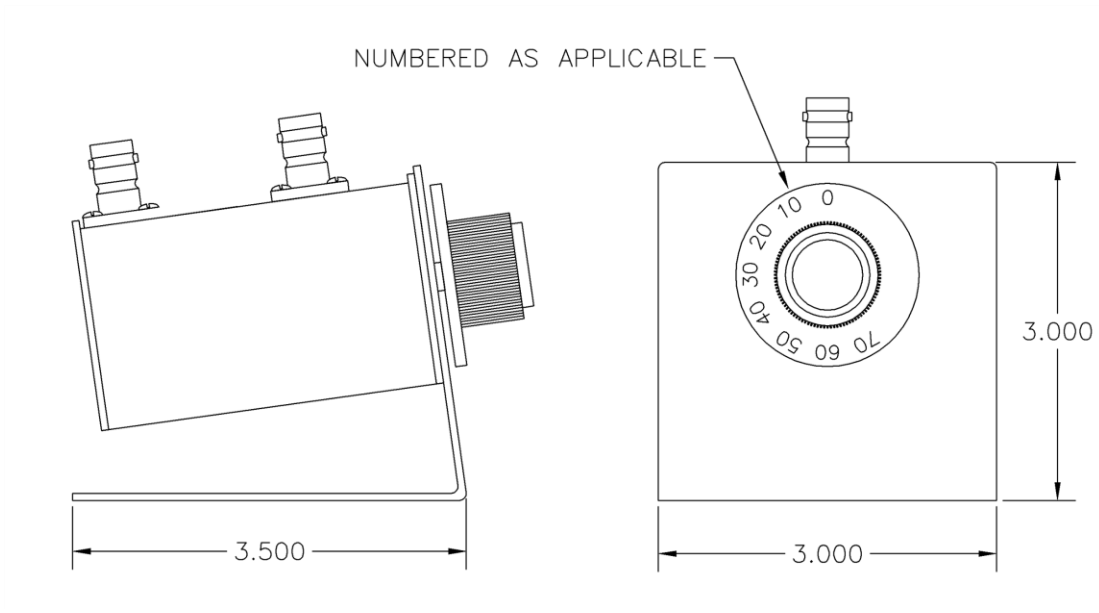
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BENCH –TOP BRACKET OPTION



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