



**The Name for
Attenuators**

PROGRAMMABLE ATTENUATORS STANDARD DA Series

Alan Industries' DA Series of Programmable Attenuators and Remote Controlled Attenuators is ideal for automatic testing over the frequency range of DC-1000 MHz. This series features total attenuation as high as 127dB and steps as small as 0.1dB. Each attenuation section of the attenuator can be individually inserted in any sequence by applying 26 VDC to its line control. The switching devices employed in these units have a switching speed of 6 milliseconds and a life expectancy of ten million operations. Standard units are arranged in a binary sequence, but other steps and other control voltages are available upon request.



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



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DA Series

ELECTRICAL SPECIFICATIONS

MODEL		50DA1.5	50DA15	50DA31	50DA63
ATTENUATION RANGE		0 - 1.5 dB	0 - 15 dB	0 - 31 dB	0 - 63 dB
ATTENUATION STEPS		0.1, 0.2, 0.4, 0.8	1, 2, 4, 8	1, 2, 4, 8, 16	1, 2, 4, 8, 16, 32
IMPEDANCE		50 Ohms			
FREQUENCY RANGE		DC - 750 MHz	DC - 1000 MHz	DC - 1000 MHz	DC - 1000 MHz
OVERALL ACCURACY (dB)	@ 500 MHz	± 0.1 dB @ 750 MHz ± 0.15 dB	± 0.3 dB	± 0.5 dB	0 - 31 ± 0.5 dB 32-63 ± 1.0 dB
	@ 1000 MHz	N/A	± 0.4 dB	± 0.75 dB	0 - 31 ± 0.75 dB 32-63 ± 1.5 dB
INSERTION LOSS MAXIMUM		1.5 dB	1.7 dB	2.0 dB	2.5 dB
MAXIMUM SWR	@ 500 MHz	1.3:1	1.3:1	1.3:1	1.3:1
	@ 1000 MHz	N/A	1.4:1	1.4:1	1.5:1
AVERAGE POWER		1 Watt	1 Watt	0.5 Watt	0.5 Watt
RF CONNECTORS		BNC, N, SMA or TNC			
CONTROL		26 VDC @ 17 ma per bit is standard. 5 VDC and 12 VDC are available.			
SWITCHING SPEED		6 Milliseconds maximum			
SWITCH LIFE		10,000,000 Selections per Bit			
LOGIC		4 Bit	4 Bit	5 Bit	6 Bit
RoHS COMPLIANCE		RoHS Compliant upon request			

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ELECTRICAL SPECIFICATIONS (continued)

MODEL		50DA127	75DA15	75DA31	75DA63
ATTENUATION RANGE		0 – 127 dB	0 - 15 dB	0 - 31 dB	0 - 63 dB
ATTENUATION STEPS		1, 2, 4, 8, 32, 64	1, 2, 4, 8	1, 2, 4, 8, 16	1, 2, 4, 8, 16, 32
IMPEDANCE		50 Ohms		75 Ohms	
FREQUENCY RANGE		DC - 1000 MHz	DC - 500 MHz	DC - 500 MHz	DC - 500 MHz
OVERALL ACCURACY (dB)	@ 500 MHz	0 - 31 ± 0.5 dB 32 - 63 ± 1.0 dB 64 - 127 ± 1.5 dB	± 0.3 dB	± 0.4 dB	0 - 31 ± 0.5 dB 32 - 63 ± 1.0 dB
	@ 1000 MHz	0 - 31 ± 0.7 dB 32 - 63 ± 1.5 dB 64 - 127 ± 3.0 dB	N/A	N/A	N/A
INSERTION LOSS MAXIMUM		3.0 dB	1.2 dB	1.5 dB	1.8 dB
MAXIMUM SWR	@ 500 MHz	1.3:1	1.3:1	1.3:1	1.3:1
	@ 1000 MHz	1.5:1	N/A	N/A	N/A
AVERAGE POWER		0.5 Watt	1 Watt	0.5 Watt	0.5 Watt
RF CONNECTORS		BNC, F, N or TNC			
CONTROL		26 VDC @ 17 ma per bit is standard. 5 VDC and 12 VDC are available.			
SWITCHING SPEED		6 Milliseconds maximum			
SWITCH LIFE		10,000,000 Selections per Bit			
LOGIC		8 Bit	4 Bit	5 Bit	6 Bit
RoHS COMPLIANCE		RoHS Compliant upon request			

TO ORDER SPECIFY: Model number as appears above, add connector type. For example, to order a unit with 63 dB of attenuation range and SMA connectors, order Alan Model 50DA63 SMA.

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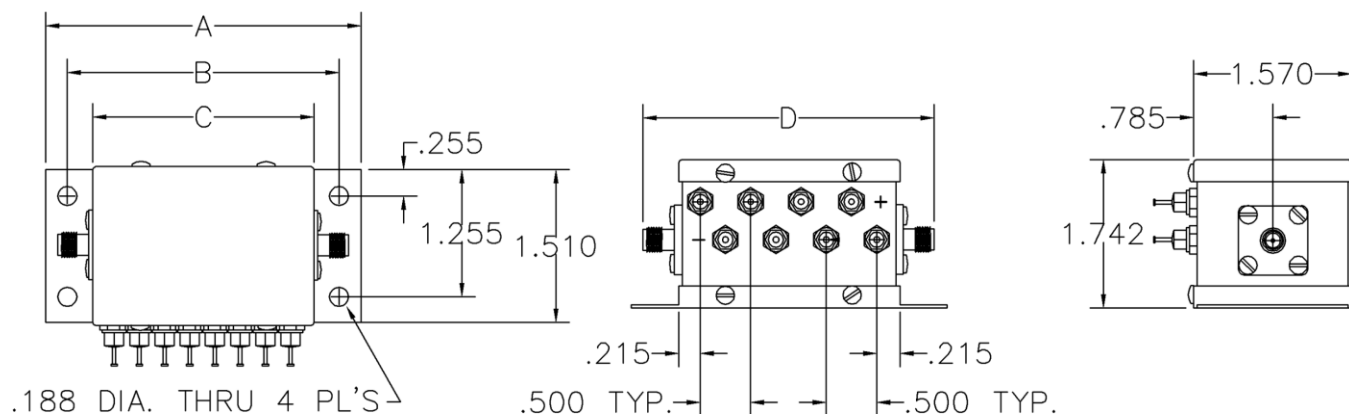


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PHYSICAL DIMENSIONS

NUMBER OF BITS	A	B	C	D SMA	D N	D BNC, TNC	D F
1	1.632	1.196	0.696	1.386	2.596	2.044	1.948
2	2.132	1.696	1.196	1.886	3.096	2.544	2.448
3	2.632	2.196	1.696	2.386	3.596	3.044	2.948
4	3.132	2.696	2.196	2.886	4.096	3.544	3.448
5	3.632	3.196	2.696	3.386	4.596	4.044	3.948
6	4.132	3.696	3.196	3.886	5.096	4.544	4.448
7	4.632	4.196	3.696	4.386	5.596	5.044	4.948
8	5.132	4.696	4.196	4.886	6.096	5.544	5.448



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