



**The Name for  
Attenuators**

## **MINIATURE TOGGLE SWITCH ATTENUATORS TX Series**

Alan Industries' TX Series of Miniature Toggle Switch Attenuators feature a small lightweight size and an attenuation range up to 102 dB. These attenuators provide reliable attenuation over the frequency range from DC – 1 GHz.



**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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## ELECTRICAL SPECIFICATIONS

MODEL	50TX15	50TX31	50TX42	50TX82.5	50TX102	
MODEL	75TX15	75TX31	75TX42	75TX82.5	75TX102	
ATTENUATION RANGE	0 - 15 dB	0 - 31 dB	0 - 42 dB	0 - 82.5 dB	0 - 102 dB	
ATTENUATION STEPS	1, 2, 4, 8 dB	1, 2, 4, 8, 16 dB	1, 2, 3, 6, 10, 20 dB	0.5, 1, 2, 3, 6, 10, 20, 20, 20 dB	1, 2, 3, 6, 10, 20, 20, 20, 20 dB	
FREQUENCY RANGE	DC - 1 GHz			* F Connectors DC - 750MHz		
IMPEDANCE	50 Ohms for 50TX Models			75 Ohms for 75TX Models		
POWER	1 Watt Average					
ACCURACY (dB)	DC - 500 MHz: $\pm 0.2$ dB for 50TX Models DC - 500 MHz: $\pm 0.3$ dB for 75TX Models					
OVERALL	0.5 - 1 GHz: $\pm 0.3$ dB for 50TX Models 0.5 - 1 GHz: $\pm 0.4$ dB for 75TX Models					
	DC - 500 MHz	$\pm 0.7$ dB	$\pm 0.7$ dB	$\pm 0.7$ dB 50TX $\pm 1.0$ dB 75TX	$\pm 1.0$ dB	$\pm 1.0$ dB
	0.5 - 1 GHz	$\pm 1.0$ dB	$\pm 1.0$ dB	$\pm 1.0$ dB 50TX $\pm 1.5$ dB 75TX	$\pm 1.5$ dB	$\pm 1.5$ dB
SWR MAX.	DC - 500 MHz	1.2:1 for 50TX Models 1.3:1 for 75TX Models				
	0.5 - 1 GHz	1.4:1 for 50TX Models 1.5:1 for 75TX Models				
INSERTION LOSS	0.9 dB	0.9 dB	1.2 dB	1.2 dB	1.2 dB	
CONNECTORS	BNC, N, SMA or TNC for 50TX Models			BNC, F for 75TX Models		
<b>RoHS COMPLIANCE</b>	<b>RoHS Compliant upon request</b>					

**TO ORDER SPECIFY:** Impedance, Category (TX), Total Attenuation and Connectors.  
For example, to order a 50 Ohm unit with 82.5 dB of attenuation and BNC connectors,  
order Alan Model 50TX82.5 BNC.

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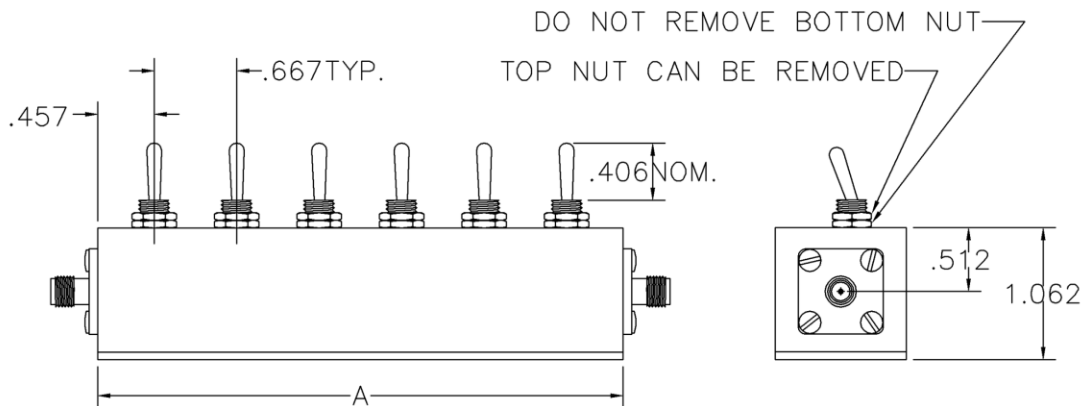
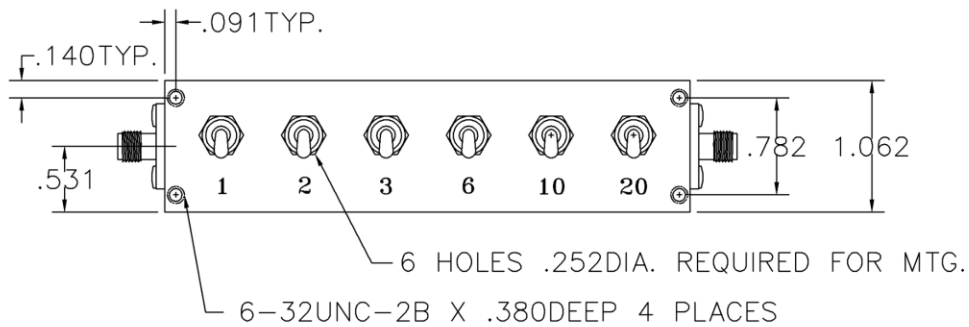


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## PHYSICAL DIMENSIONS

ATTENUATION	A
0 - 15 dB	3.015
0 - 31 dB	3.582
0 - 42 dB	4.249
0 - 82.5 dB	6.249
0 - 102 dB	6.249



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