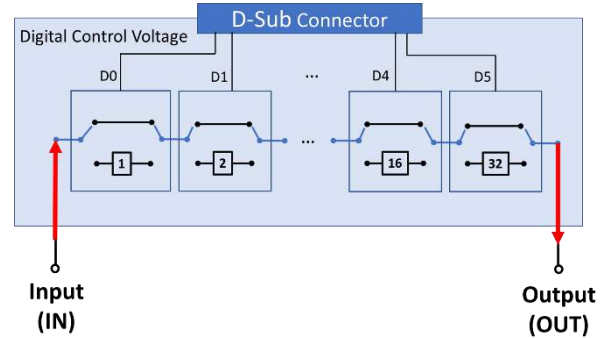




55 ns fast switching time

Monotonicity Guaranteed



Electrical Schematic

Electrical Specifications (Drafted)

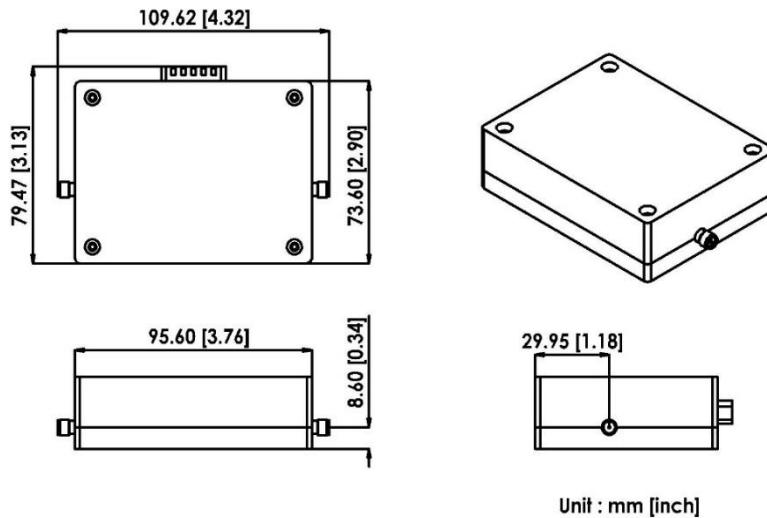
Parameter	Unit	Frequency (MHz)	Conditions	Min.	Typ.	Max.
Attenuation Range	dB	100-18000		0		63
Step Size	dB				1	
Insertion Loss	dB		@ 0 dB Att.		13.2	15.5
Input Operating Power (RF In and RF Out ports)	dBm					
Attenuation Accuracy	dB	100-10000	@ 1 - 7 dB Att.	$\pm (0.3 + 4\% \text{ of State})$ (typ.)		
			@ 8 - 63 dB Att.	$\pm (0.4 + 4\% \text{ of State})$ (typ.)		
		10000 - 18000	@ 1 - 7 dB Att.	$\pm (0.3 + 5\% \text{ of State})$ (typ.)		
			@ 8 - 63 dB Att.	$\pm (0.4 + 5\% \text{ of State})$ (typ.)		
Input IP3	dBm	100-18000			42	
VSWR	:1		@ 0 dB Att.	Input		2.12
			Output		2.03	

Switching Speed	ns		10% to 90% RF Output		52	
			50% Control to 90% RF Output		55	60
Supply Voltage	V		V _{DD1}		5	
			V _{DD2}		3.3	
Control Voltage	V		Low		0	
			High		3.3	
Supply Current	mA		I _{DD1}		14	
			I _{DD2}		2	

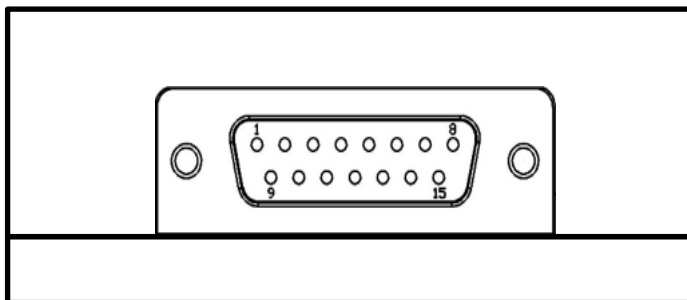
Operated in 50Ω system, 25°C environment.

Monotonicity Guaranteed.

Outline Drawing



Connectors: SMA female, D-Sub Male

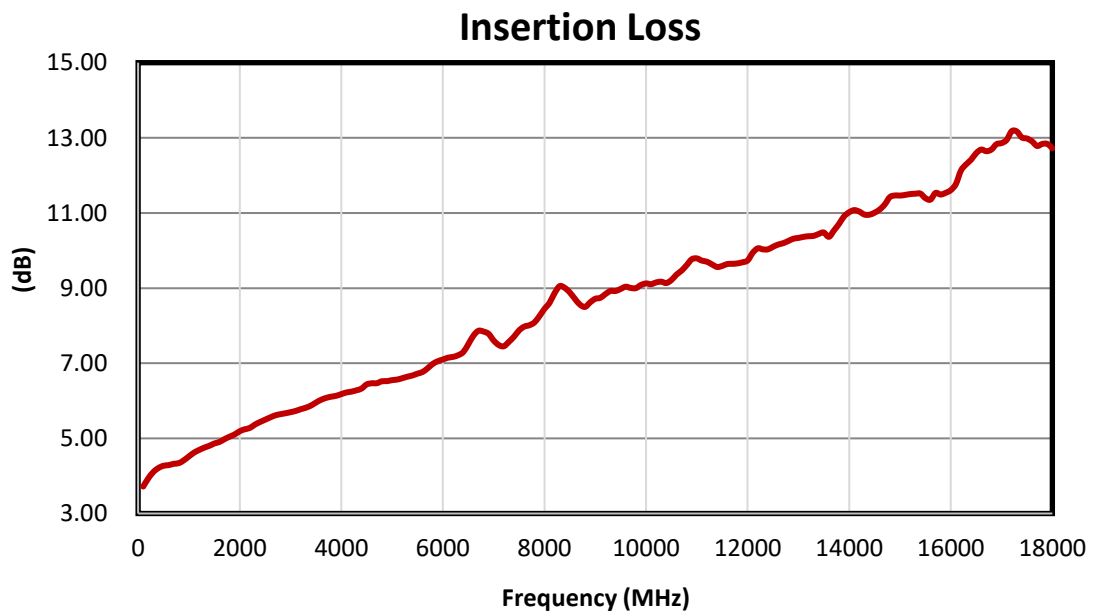


Pin Number Functions

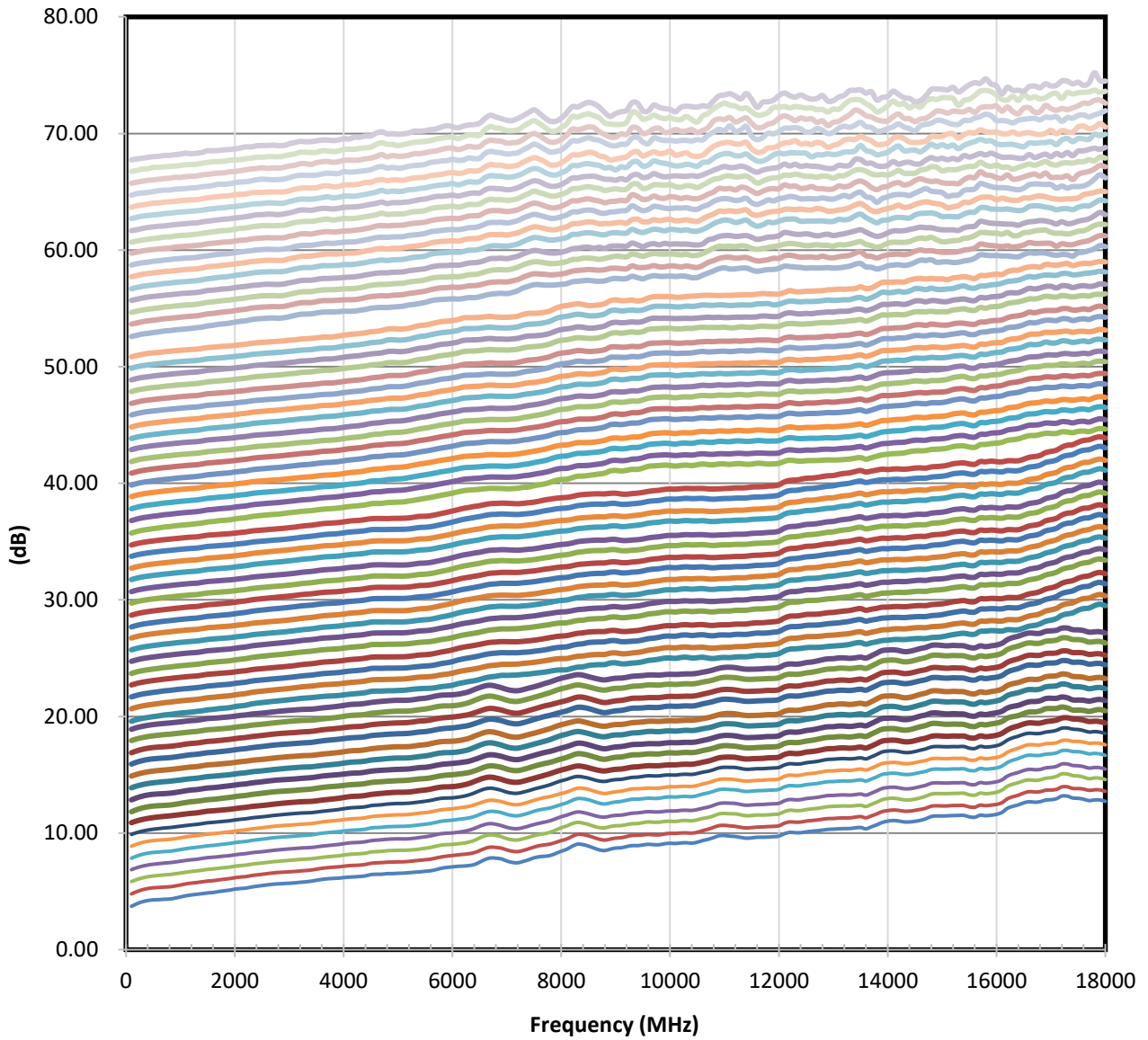
No.	15	14	13	12	11
Func.	N/C	D5	D4	D3	D2
No.	10	9	8	7	6
Func.	D1	D0	V _{DD2}	N/C	N/C
No.	5	4	3	2	1
Func.	N/C	N/C	GND	V _{DD1}	N/C

Digital Control Input						Attenuation State (dB)
D0	D1	D2	D3	D4	D5	
High	High	High	High	High	High	0 (reference)
Low	High	High	High	High	High	1
High	Low	High	High	High	High	2
High	High	Low	High	High	High	4
High	High	High	Low	High	High	8
High	High	High	High	Low	High	16
High	High	High	High	High	Low	32
Low	Low	Low	Low	Low	Low	63

Typical Performance

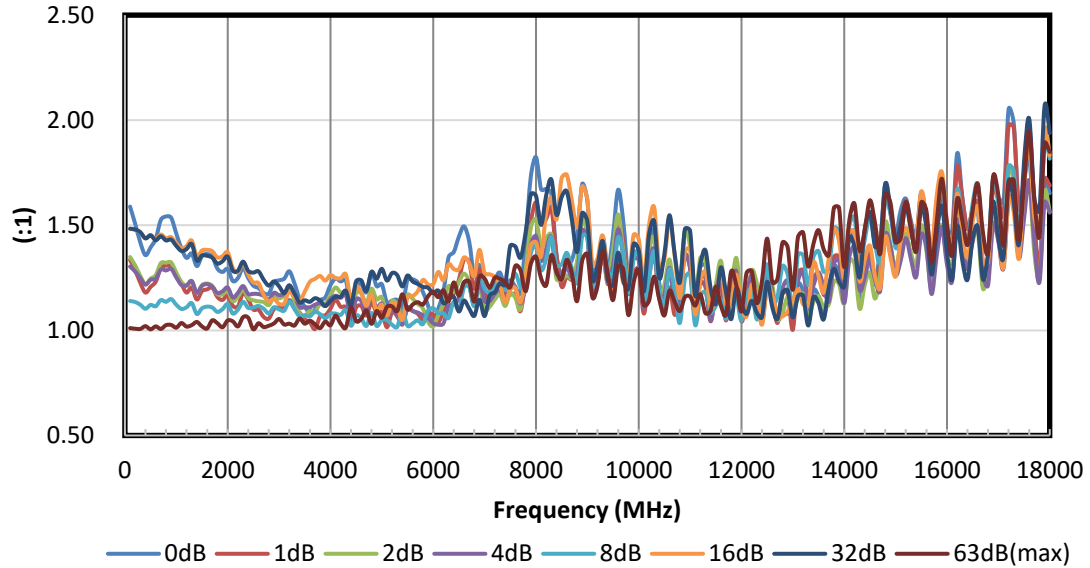


Unnormalized Attenuation

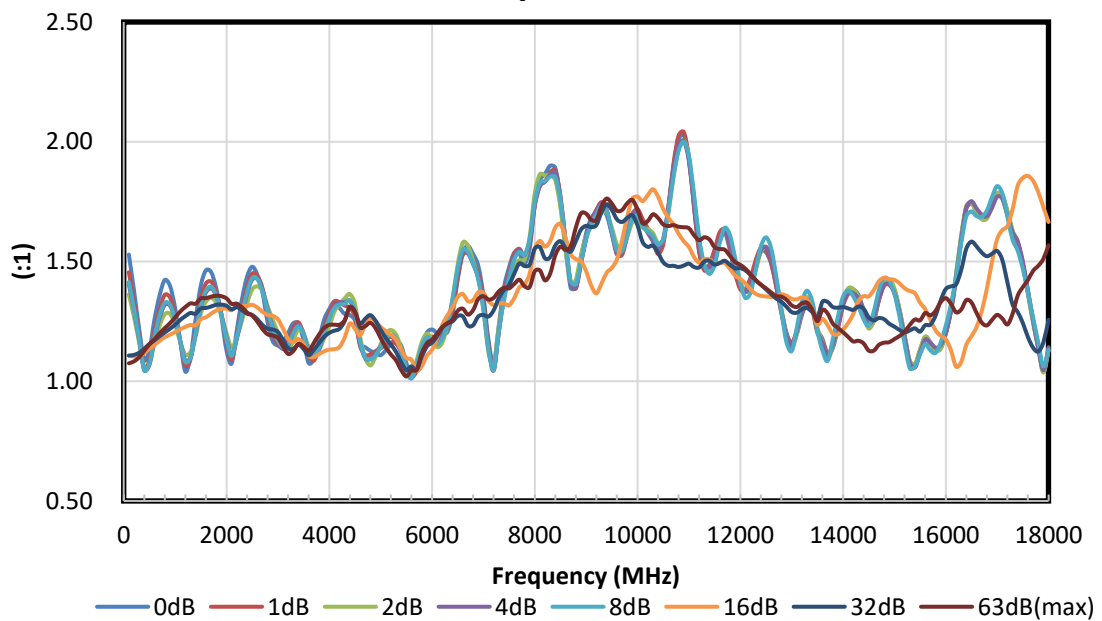


0dB	1dB	2dB	3dB	4dB	5dB
6dB	7dB	8dB	9dB	10dB	11dB
12dB	13dB	14dB	15dB	16dB	17dB
18dB	19dB	20dB	21dB	22dB	23dB
24dB	25dB	26dB	27dB	28dB	29dB
30dB	31dB	32dB	33dB	34dB	35dB
36dB	37dB	38dB	39dB	40dB	41dB
42dB	43dB	44dB	45dB	46dB	47dB
48dB	49dB	50dB	51dB	52dB	53dB
54dB	55dB	56dB	57dB	58dB	59dB
60dB	61dB	62dB	63dB(max)		

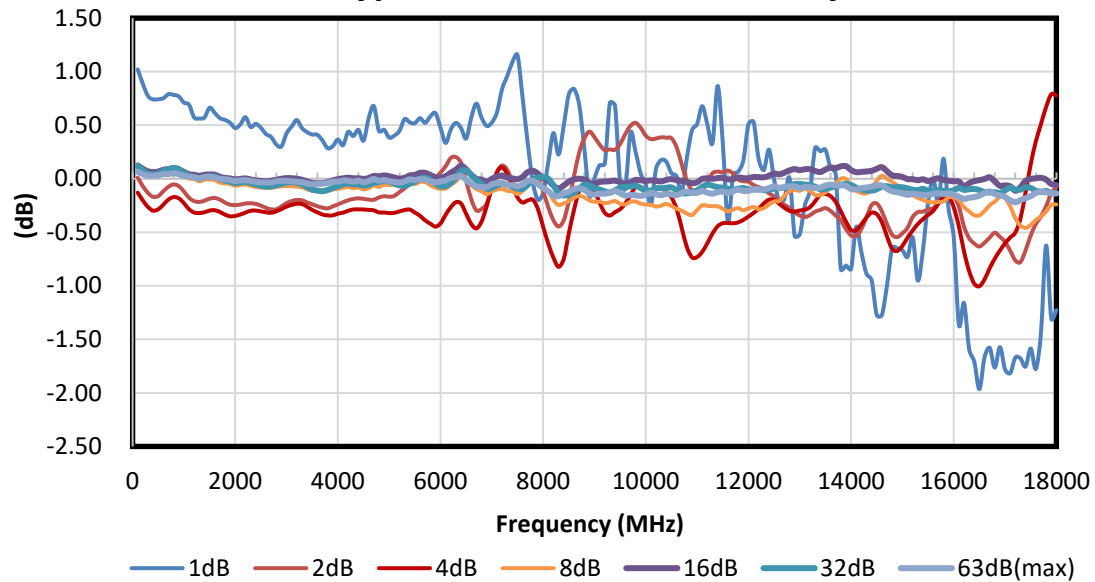
Input VSWR



Output VSWR



Typical Attenuation Accuracy



Typical performance S-parameter file: <https://www.amtery.com/en/goods-92>

For each S/N S-parameter file, go to <https://www.amtery.com/en/downloads>

Note: Specifications are subject to change without notice.