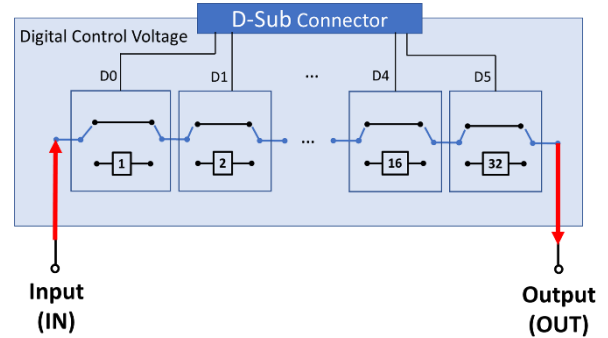




55 ns fast switching time

Monotonicity Guaranteed



Electrical Schematic

Electrical Specifications (Drafted)

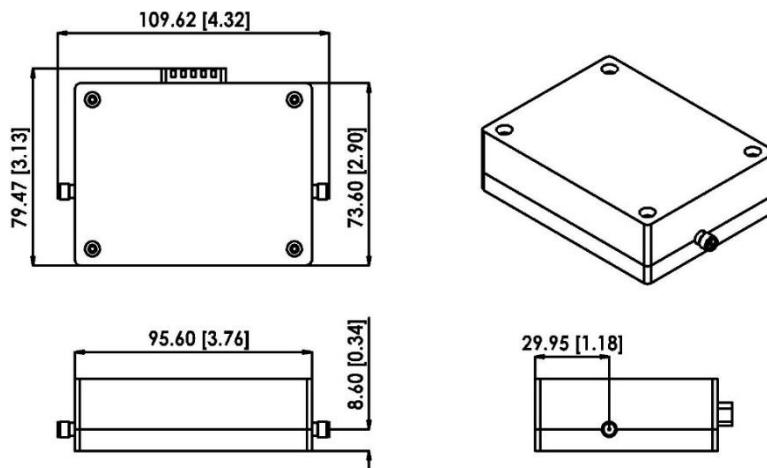
Parameter	Unit	Frequency (MHz)	Conditions	Min.	Typ.	Max.
Attenuation Range	dB	100-18000		0		63
Step Size	dB				1	
Insertion Loss	dB		@ 0 dB Att.		13.2	15.5
Input Operating Power (RF In and RF Out ports)	dBm					
Attenuation Accuracy	dB	100-10000	@ 1 - 7 dB Att.	$\pm (0.3 + 4\% \text{ of State})$ (typ.)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

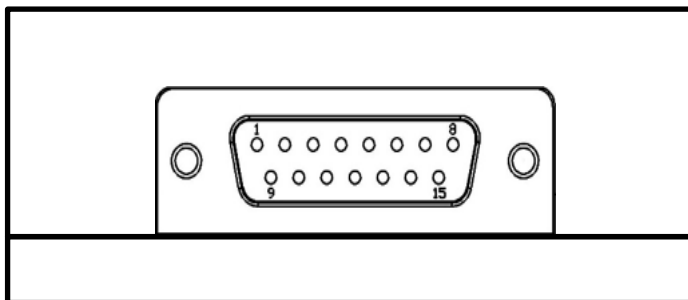
Monotonicity Guaranteed.

Outline Drawing



Unit : mm [inch]

Connectors: SMA female, D-Sub Male

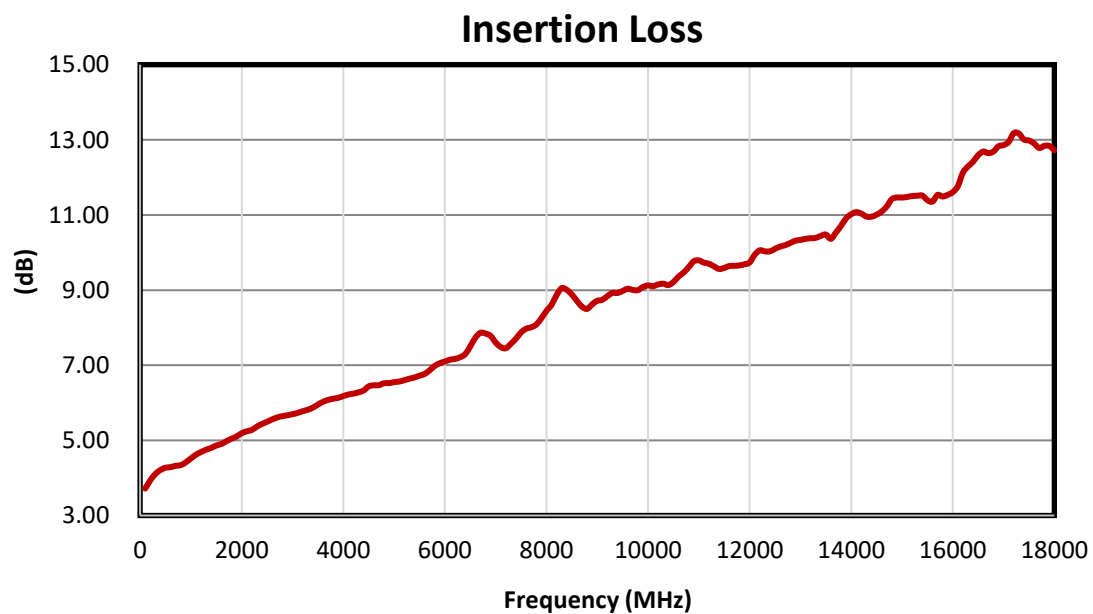


Pin Number Functions

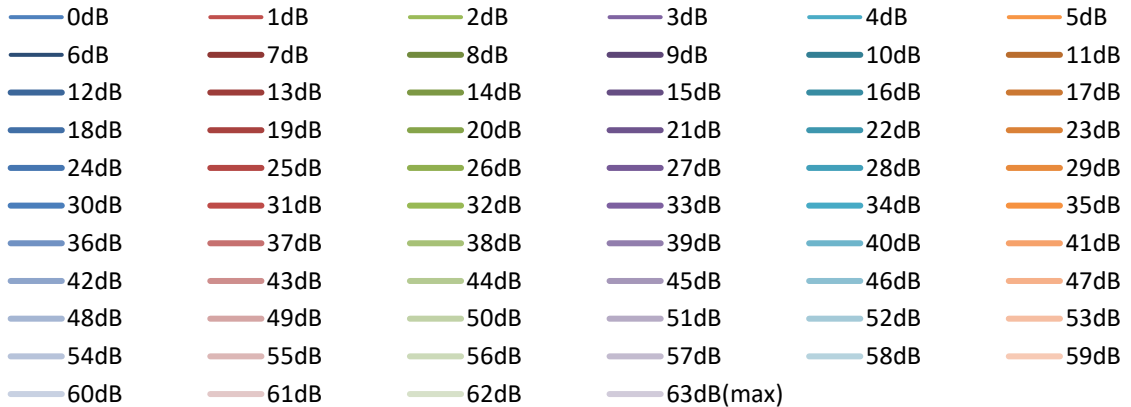
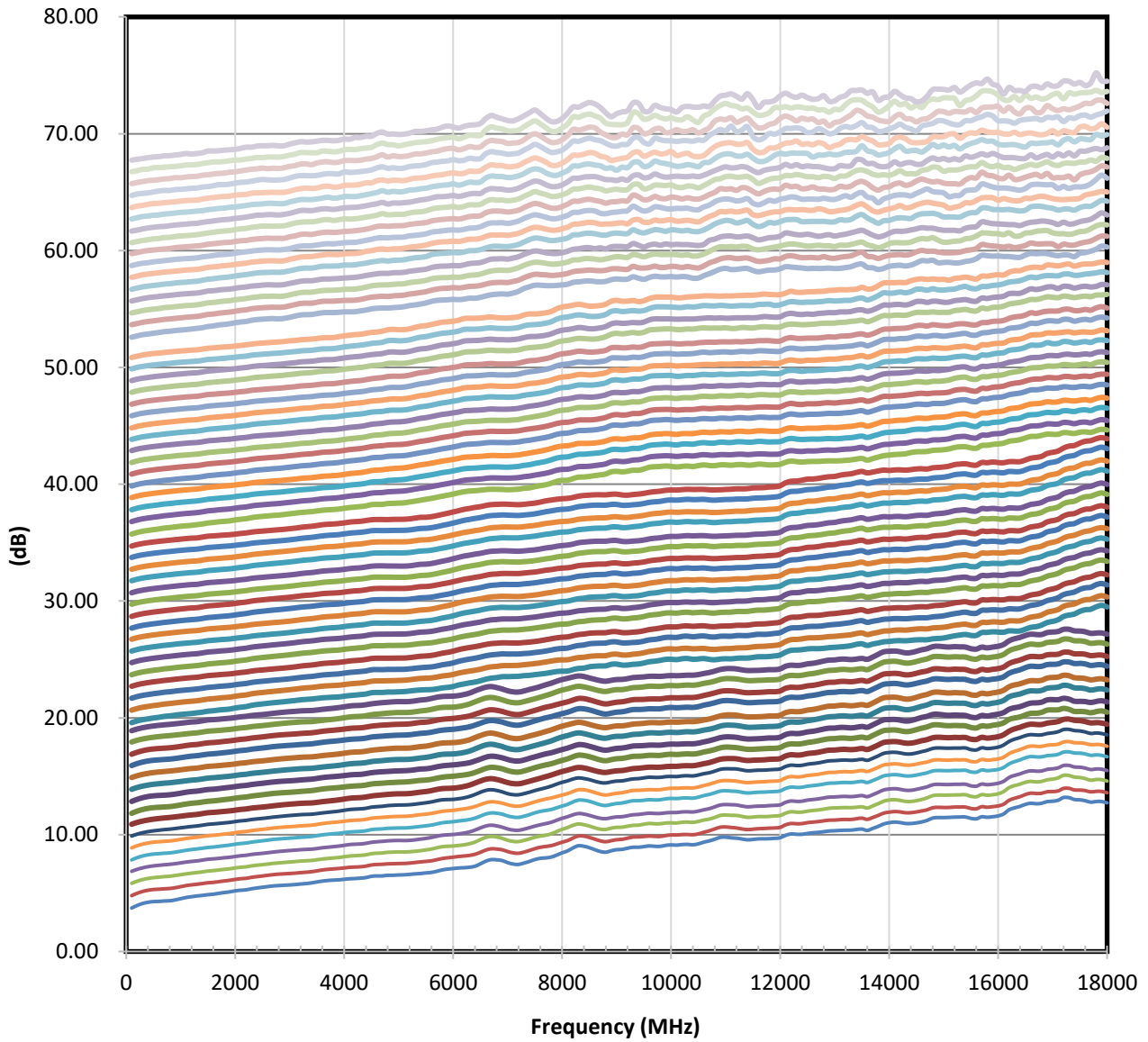
No.	15	14	13	12	11
Func.	N/C	D5	D4	D3	D2
No.	10	9	8	7	6
Func.	D1	D0	V _{DD2}	N/C	N/C
No.	5	4	3	2	1
Func.	N/C	N/C	GND	V _{DD1}	N/C

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

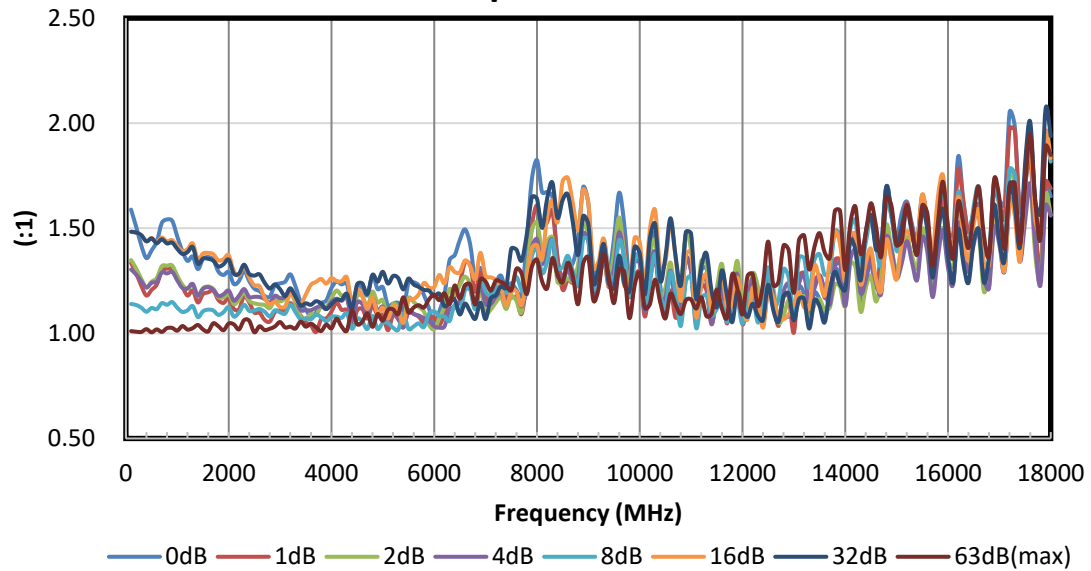
Typical Performance



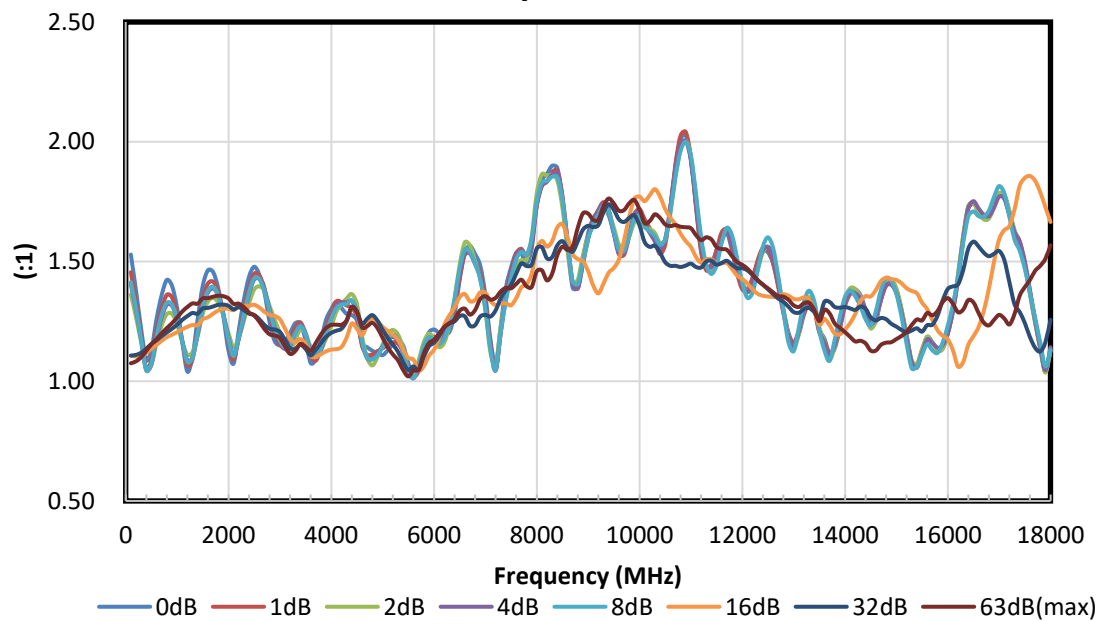
Unnormalized Attenuation



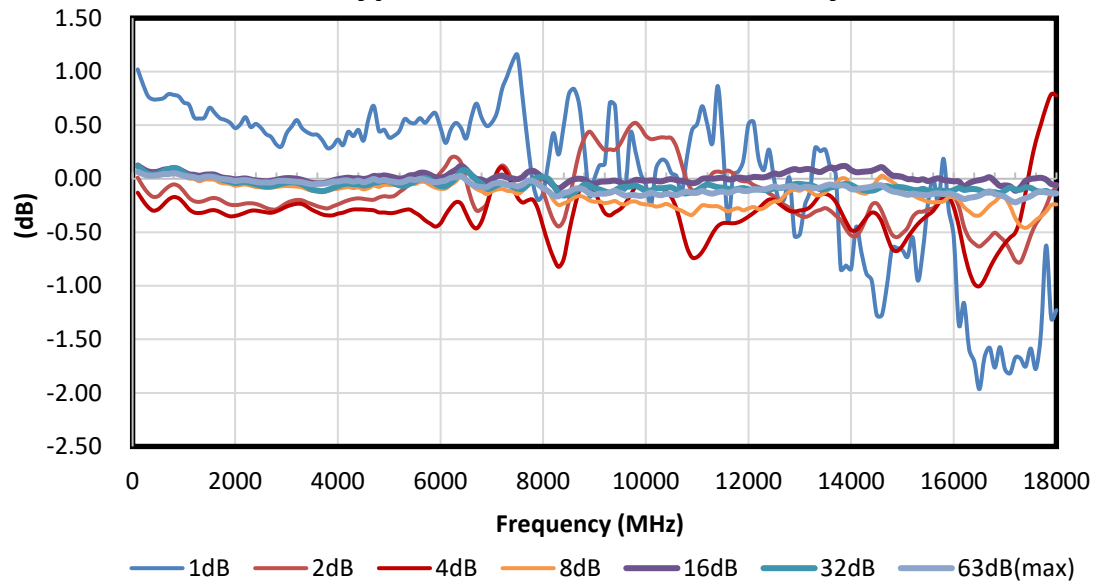
Input VSWR



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.