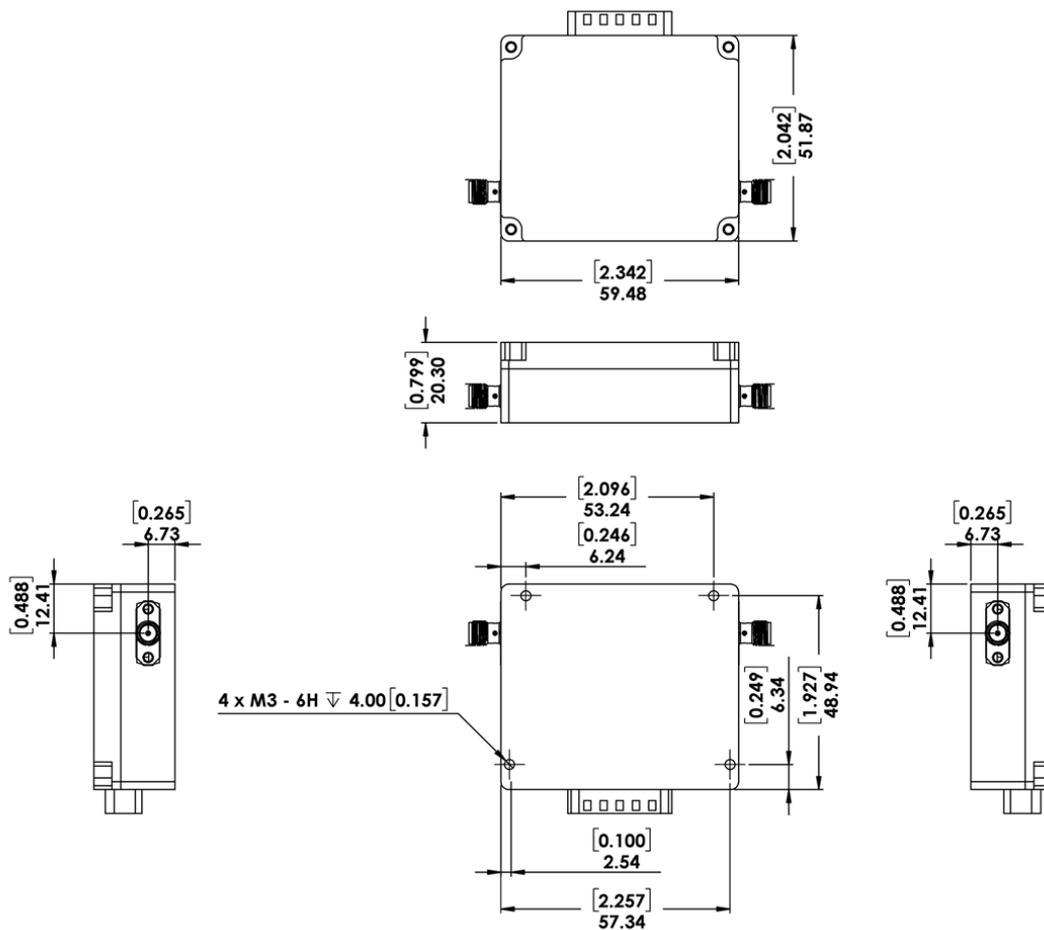


Electrical Schematic

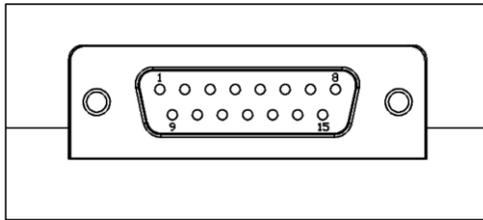
### Electrical Specifications

Parameter	Unit	Frequency (MHz)	Conditions	Min.	Typ.	Max.	
Attenuation Range	dB	100 - 18000		0		63	
Step Size	dB					0.5	
Insertion Loss (I.L.)	dB		100 - 9000MHz @ 0 dB Atn.			4.5	6.5
			9000 - 18000MHz @ 0 dB Atn.			6.8	9
Attenuation Accuracy	dB		@ 0 - 20 dB Atn.			+0.3 - -0.3	
			@ 20 - 40 dB Atn.			+0.3 - -0.6	
			@ 40 - 63 dB Atn.			+0.5 - -2	
Input Operation Power	dBm			-		-	25
Input Third-Order Intercept (IIP3)	dBm			@ 0 dB setting		47	
Input 1dB Power Compression (IP1dB)	dBm			@ 0 dB setting		30	
VSWR	:1		Input @ 0 dB Atn.			1.7	
			Output @ 0 dB Atn.			1.7	
Switching Speed	us		10% to 90% RF Output			1.3	
			50% Control to 90% RF Output			3.9	
Supply Voltage Range (Vdd)	V				4	5	5.5
Control Voltage Threshold	V		Low		0		0.8
			High		1.2		3.3
Supply Current (Idd)	mA			Vdd = 5V		1	

### Outline Drawing



**Connectors:** SMA female, D-Sub Male

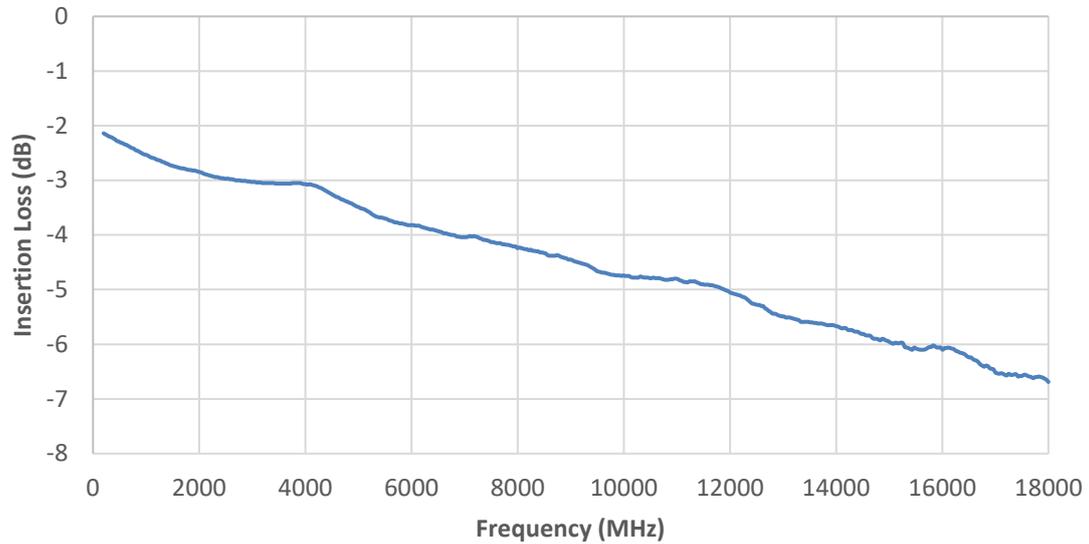


### Pin Number Functions

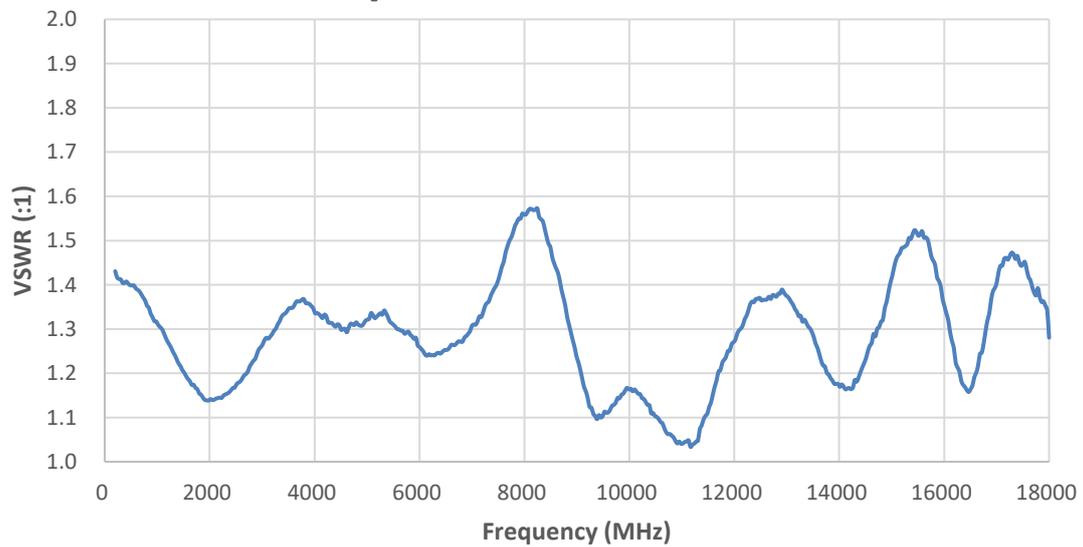
<b>No.</b>	15	14	13	12	11
<b>Func.</b>	D0	D1	D2	D3	D4
<b>No.</b>	10	9	8	7	6
<b>Func.</b>	D5	D6	VDD	N/C	GND
<b>No.</b>	5	4	3	2	1
<b>Func.</b>	N/C	N/C	GND	N/C	N/C

Digital Control Input							Attenuation State (dB)
D0	D1	D2	D3	D4	D5	D6	
Low	Low	Low	Low	Low	Low	Low	0 (reference)
<b>High</b>	Low	Low	Low	Low	Low	Low	0.5
Low	<b>High</b>	Low	Low	Low	Low	Low	1
Low	Low	<b>High</b>	Low	Low	Low	Low	2
Low	Low	Low	<b>High</b>	Low	Low	Low	4
Low	Low	Low	Low	<b>High</b>	Low	Low	8
Low	Low	Low	Low	Low	<b>High</b>	Low	16
Low	Low	Low	Low	Low	Low	<b>High</b>	32
<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>	63.5

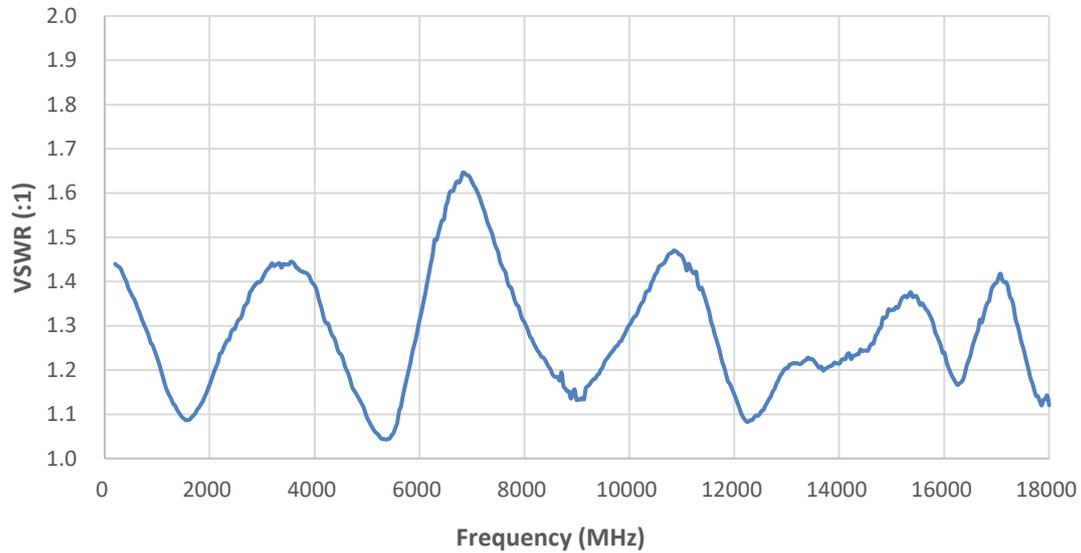
### Insertion Loss



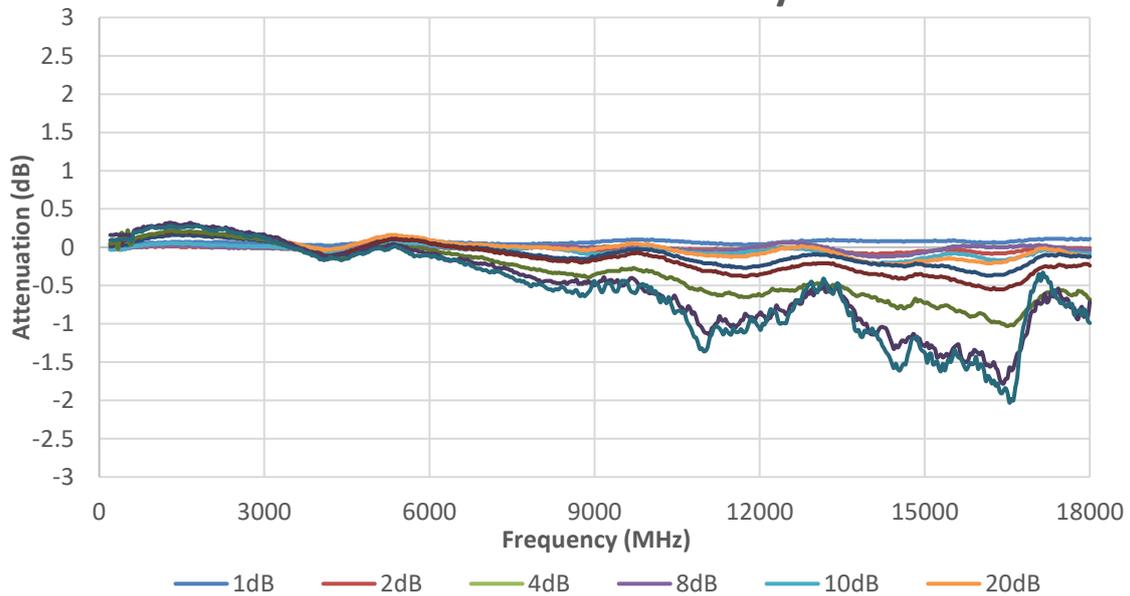
### Input VSWR @0 dB Att.

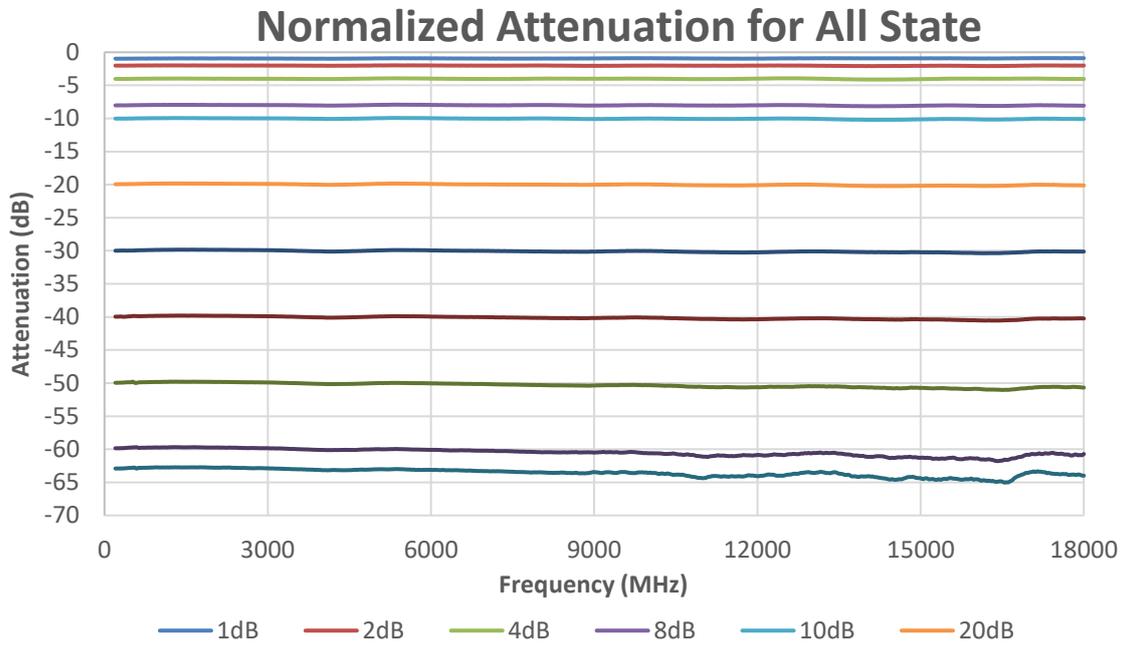


### Output VSWR @0 dB Att.



### Normalized Attenuation Accuracy for All State





Typical performance S-parameter file: <https://www.amtery.com/en/goods-100>

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

Note: Specifications are subject to change without notice.