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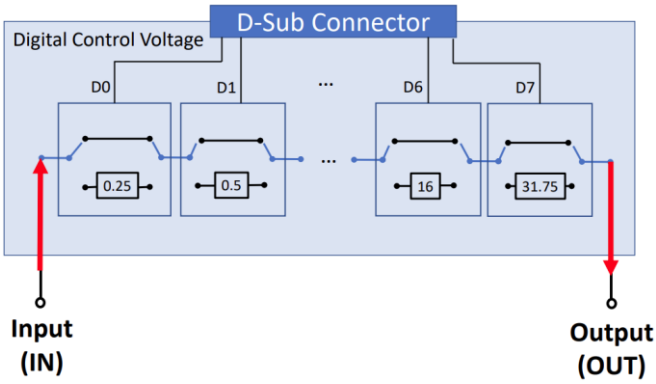
AT10006B-60-P

Digital Step Attenuator 200 - 6000 MHz
63.5 dB, 0.25 dB Step

RoHS Compliant



Electrical Schematic

Electrical Specifications

Parameter	Unit	Frequency (MHz)	Conditions		Min.	Typ.	Max.
Attenuation Range	dB	200 - 6000			0		63.5
Step	dB					0.25	
Insertion Loss	dB		@ 0 dB Atn.			5.5	5.7
Attenuation Accuracy	dB		@ 0.25 dB Atn.			±0.03	±0.04
			@ 0.5, 1, 2 dB Atn.			±0.07	±0.13
			@ 4, 8, 16 dB Atn.			±0.27	±0.32
			@ 31.75 dB Atn.			±0.74	±1.00
			@ 63.5 dB Atn.			±3.30	±3.50
Input Operating Power (RF In and RF Out ports)	dBm						24
IP3 Input	dBm					47	
VSWR	:1		@ 0 dB Atn.	Input		1.93	1.94
				Output		1.74	
Switching Speed	ns		10% to 90% RF Output			90	
			50% Control to 90% RF Output			205	
Supply Voltage Range (V_{DD})	V				3		5.4
Control Voltage Threshold	V		Low	V_{DD} = 3.3 V	0		0.5
				V_{DD} = 5 V	0		0.8
			High	V_{DD} = 3.3 V	2		3.3
				V_{DD} = 5 V	3.5		5

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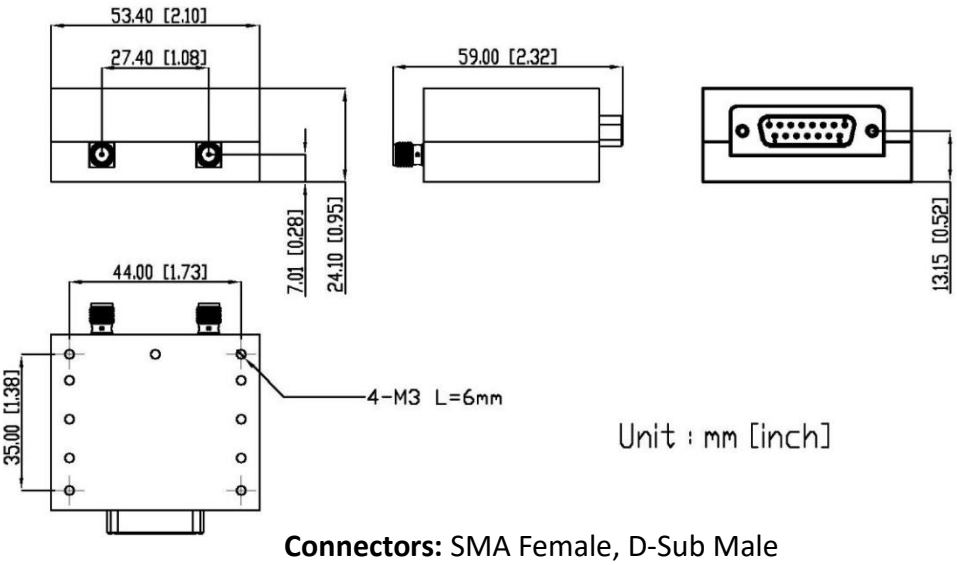
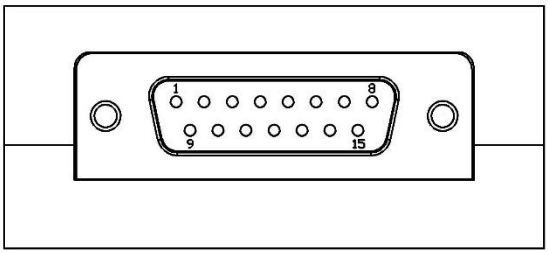
Digital Control Voltage Range	V			0		V_{DD}
Supply Current (I_{DD})	mA		V_{DD} = 3.3 V		0.6	
			V_{DD} = 5 V		1.2	

Operated in 50Ω system, 25°C environment.

Outline Drawing



Connectors: SMA Female, D-Sub Male



Pin Number Functions

No.	15	14	13	12	11
Func.	D0	D1	D2	D3	D4
No.	10	9	8	7	6
Func.	D5	D6	V_{DD}	N/C	PS(0V)
No.	5	4	3	2	1
Func.	N/C	N/C	GND	N/C	D7

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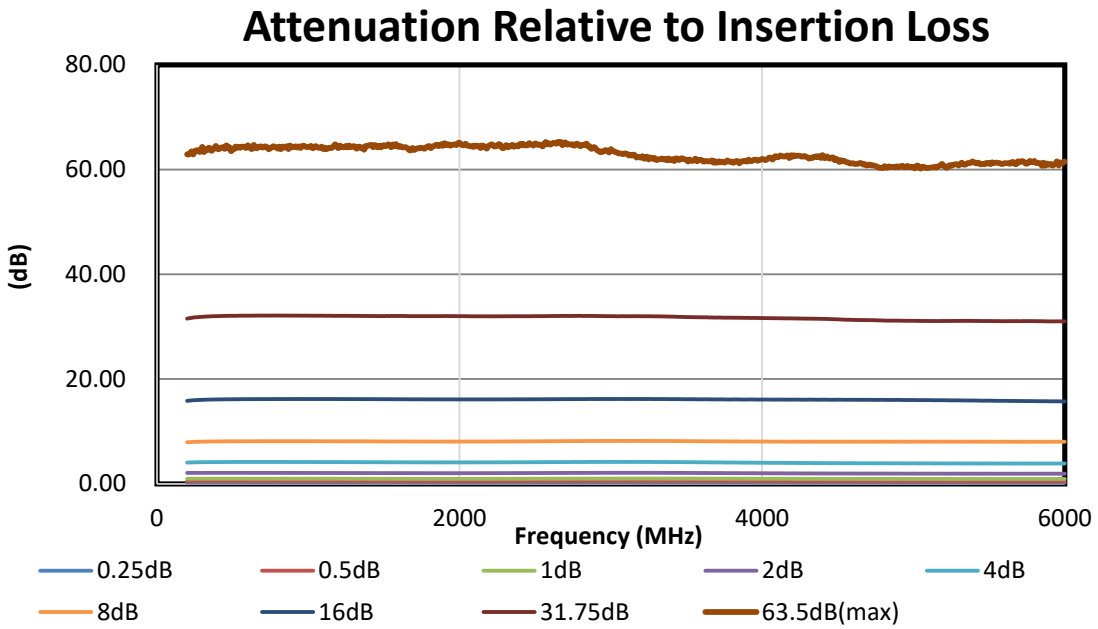
Digital Control Input								Attenuation State (dB)
D0	D1	D2	D3	D4	D5	D6	D7	
Low	Low	Low	Low	Low	Low	Low	Low	0 (reference)
High	Low	Low	Low	Low	Low	Low	Low	0.25
Low	**High**	Low	Low	Low	Low	Low	Low	0.5
Low	Low	**High**	Low	Low	Low	Low	Low	1
Low	Low	Low	**High**	Low	Low	Low	Low	2
Low	Low	Low	Low	**High**	Low	Low	Low	4
Low	Low	Low	Low	Low	**High**	Low	Low	8
Low	Low	Low	Low	Low	Low	**High**	Low	16
Low	Low	Low	Low	Low	Low	Low	**High**	31.75
High	**High**	**High**	**High**	**High**	**High**	**High**	**High**	63.5

Typical Performance



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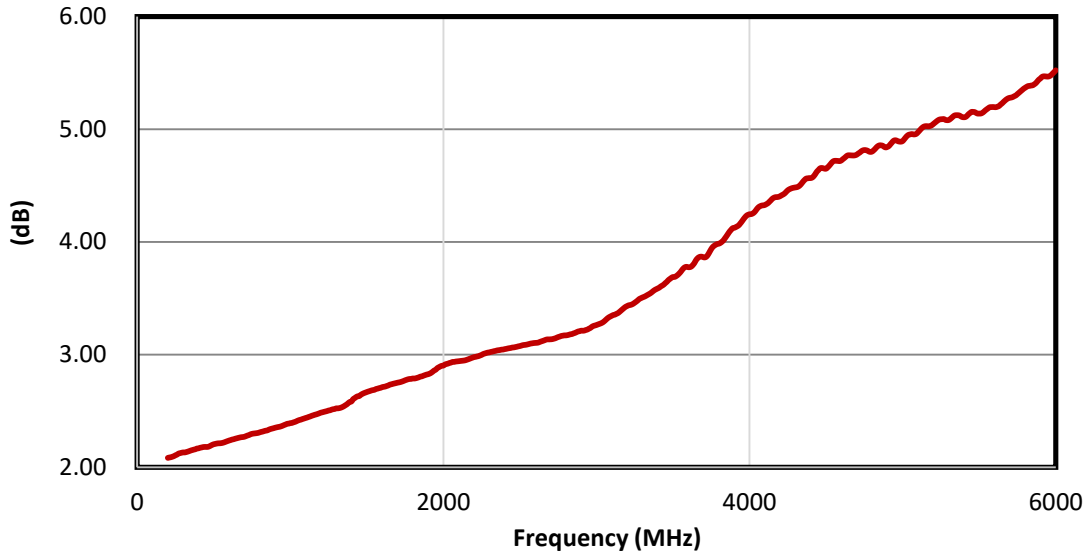
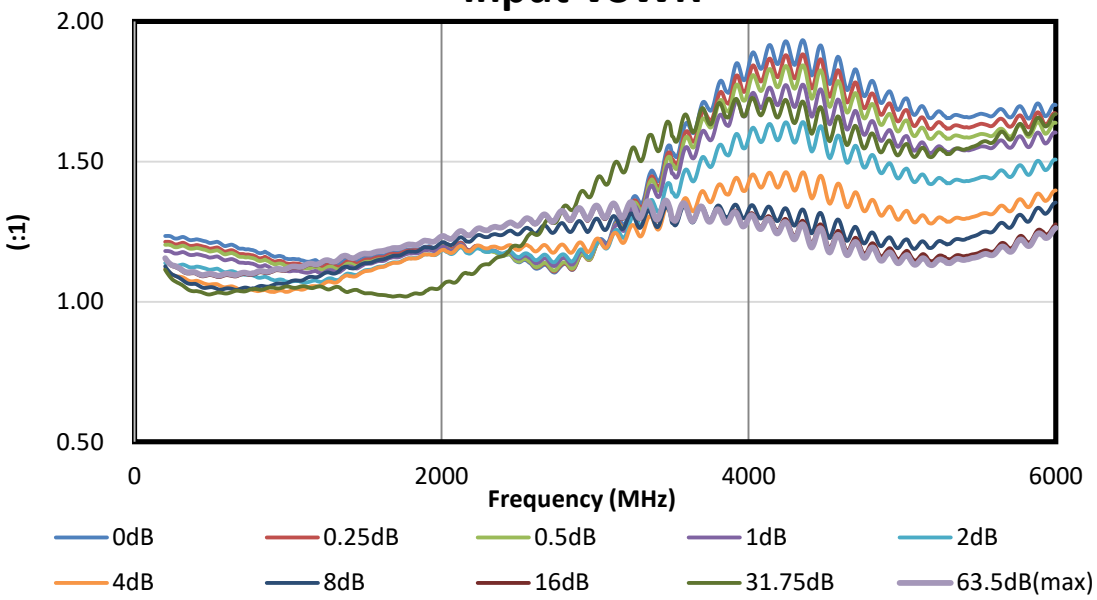
Insertion Loss



Input VSWR



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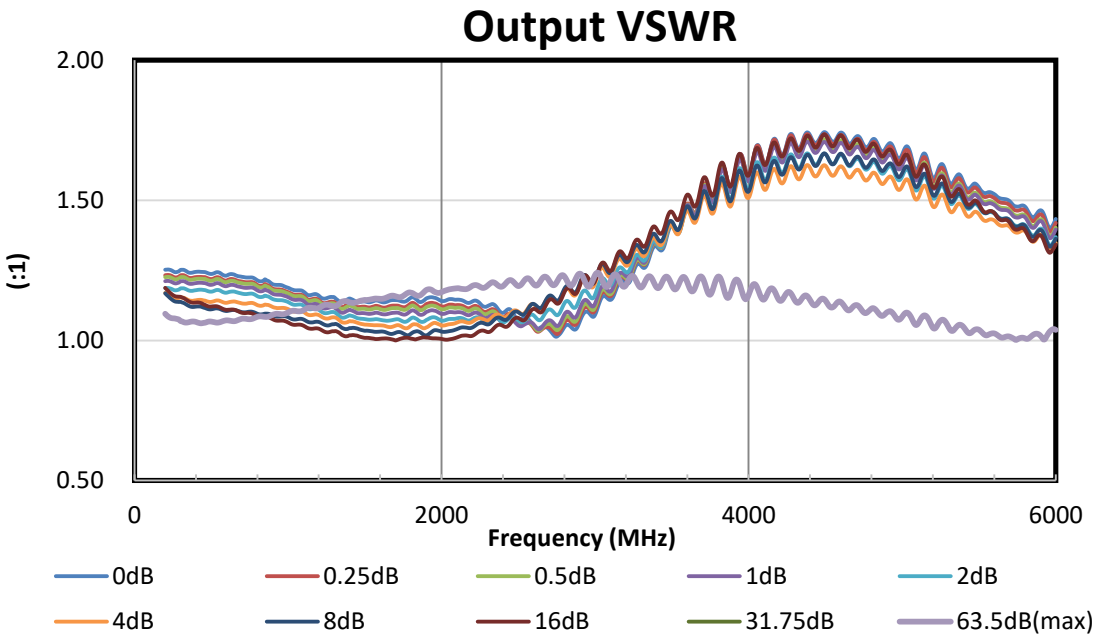

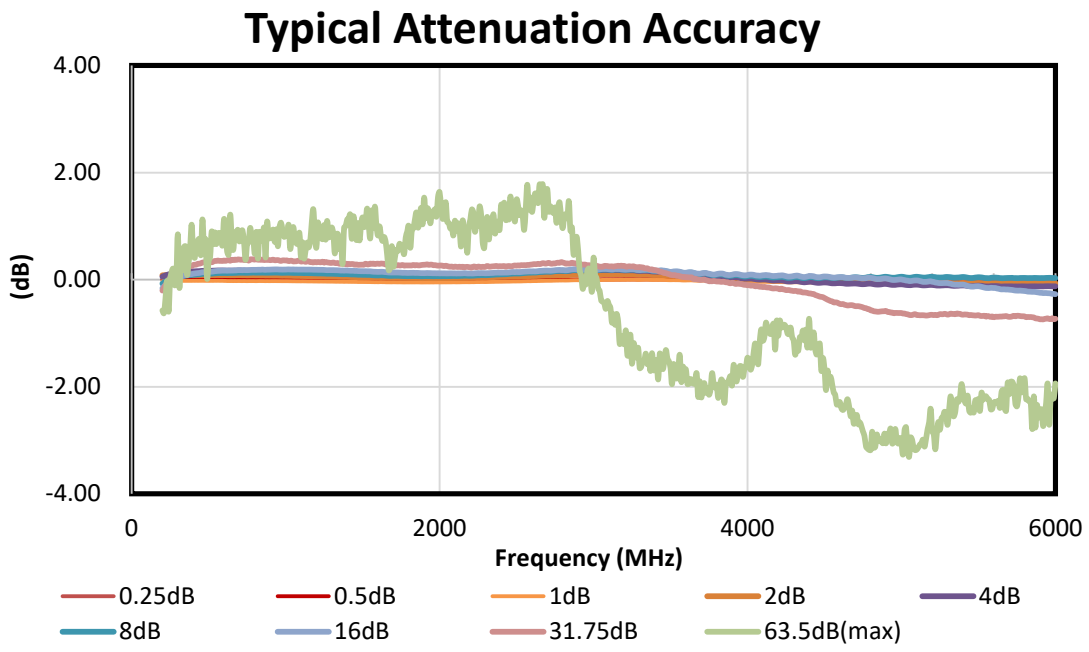

Typical performance S-parameter file: https://www.amtery.com/en/goods-80

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

Note: Specifications are subject to change without notice.