Amtery

Quick Delivery. Reliable Quality. Instant Service

AT10006B-30-U

Programmable Attenuator 200 - 6000 MHz
31.75 dB, 0.25 dB Step

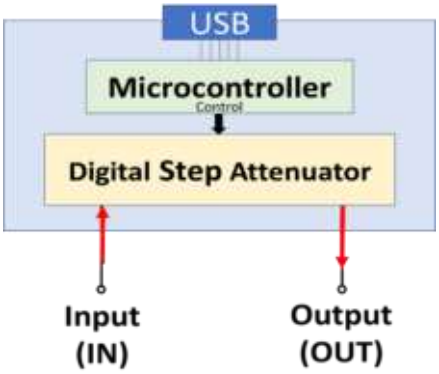


RoHS Compliant

Insertion Loss Compensated

No Extra Insertion Loss

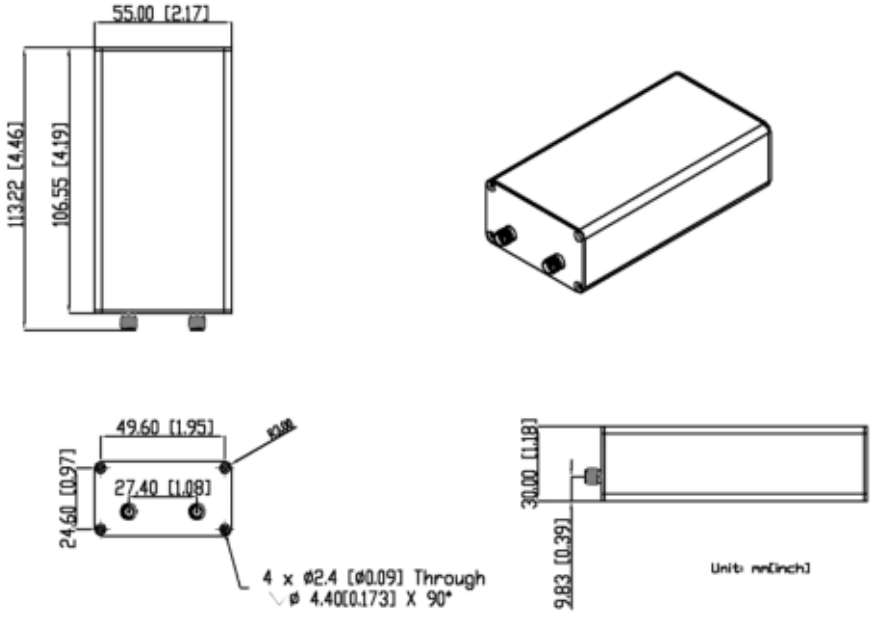
Setting Attenuation = Actual Attenuation



Electrical Schematic

Note: When the "compensate I.L." is set "ON", and the frequency and wanted attenuation value is specified, the attenuator will automatically calculate the required additional attenuation value according to the corresponding insertion loss. The final attenuation value will be very close to wanted attenuation value.

Outline Drawing



Connectors: SMA Female, USB (Micro-B)

www.amtery.com
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Electrical Specifications

Parameter		Unit	Frequency (MHz)	Conditions		Min.	Typ.	Max.
Attenuation Range		dB	200 - 6000			0		31.75
Step		dB					0.25	
Insertion Loss (I.L.)		dB		@ 0 dB Att.			3.2	3.4
Attenuation Accuracy	**Compensate I.L. "OFF"** *Note1* **(I.L. Excluded)**	dB		@ 0.25 dB Att.			±0.02	±0.03
				@ 0.5, 1, 2 dB Att.			±0.07	±0.10
				@ 4, 8, 16 dB Att.			±0.20	±0.32
				@ 31.75 dB Att.			±0.95	±1.10
	Compensate I.L. "ON" *Note2* **(I.L. Included)**	dB		I.L. ≤ Att. ≤5dB			± 0.20	± 0.25
				5dB < Att. ≤ 31.75dB			± 0.25	± 0.30
Input Operating Power (RF In and RF Out ports)		dBm						24
IP3 Input		dBm					51	
VSWR		:1		@ 0 dB Att.	Input		1.36	1.40
					Output		1.35	
Switching Speed		ns		10% to 90% RF Output			70	
				50% Control to 90% RF Output			165	
Supply Voltage		V		USB port			5	
Supply Current		mA		USB port			10.4	

Operated in 50Ω system, 25°C environment.

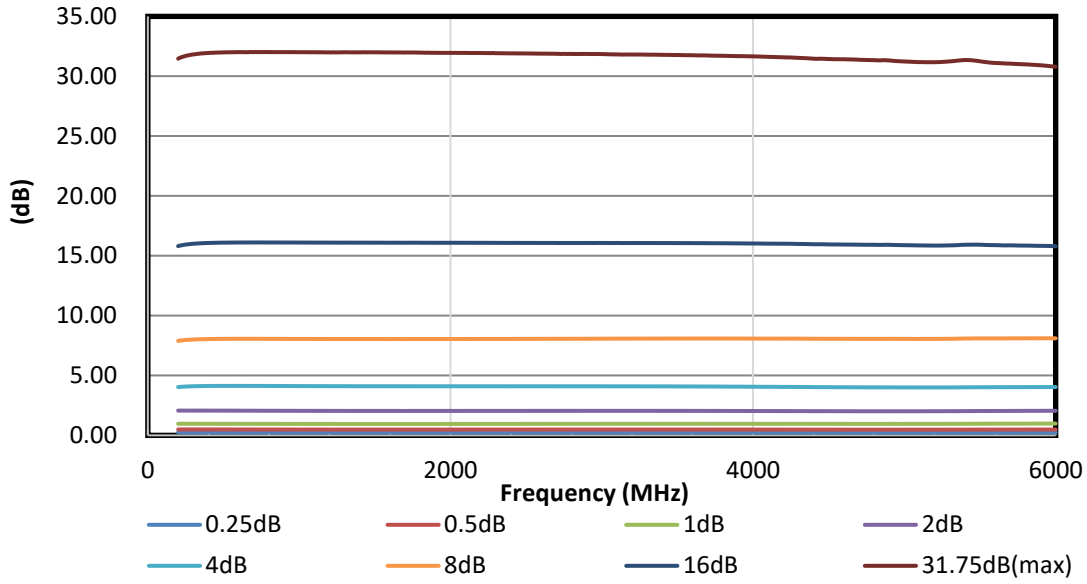
Note1 Max accuracy is relative to attenuation setting value EXCLUDING insertion loss while "Compensate I.L." setting is "OFF".

Note 2 Max accuracy is relative to attenuation setting value INCLUDING insertion loss while "Compensate I.L." setting is "ON".

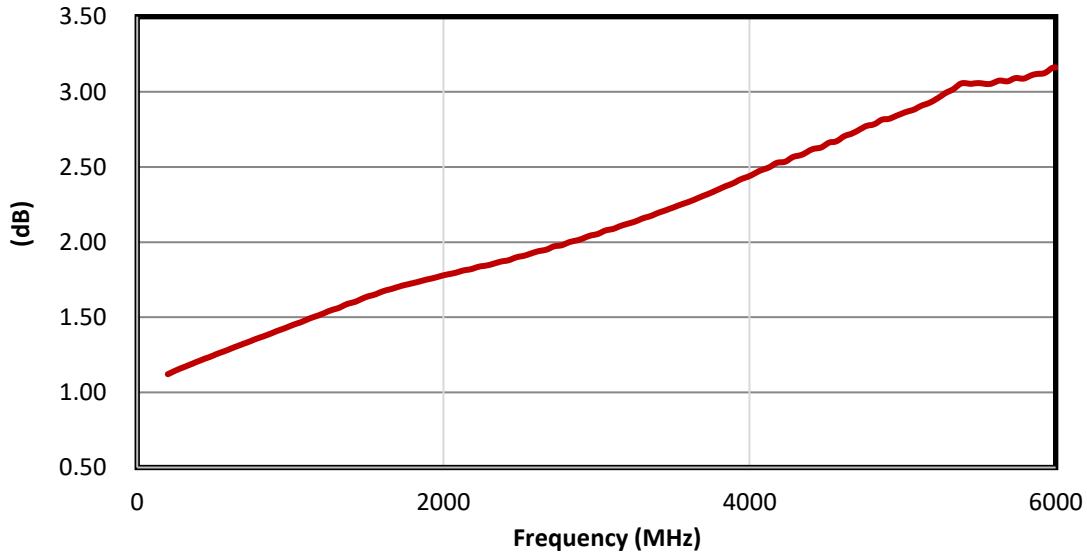
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Attenuation relative to Insertion Loss

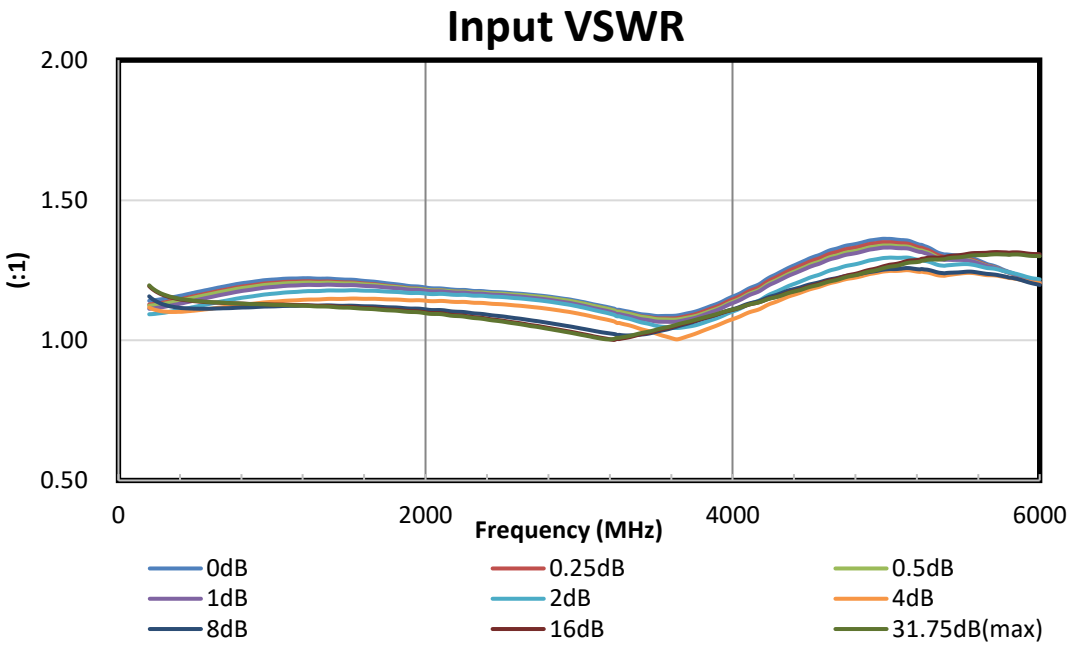


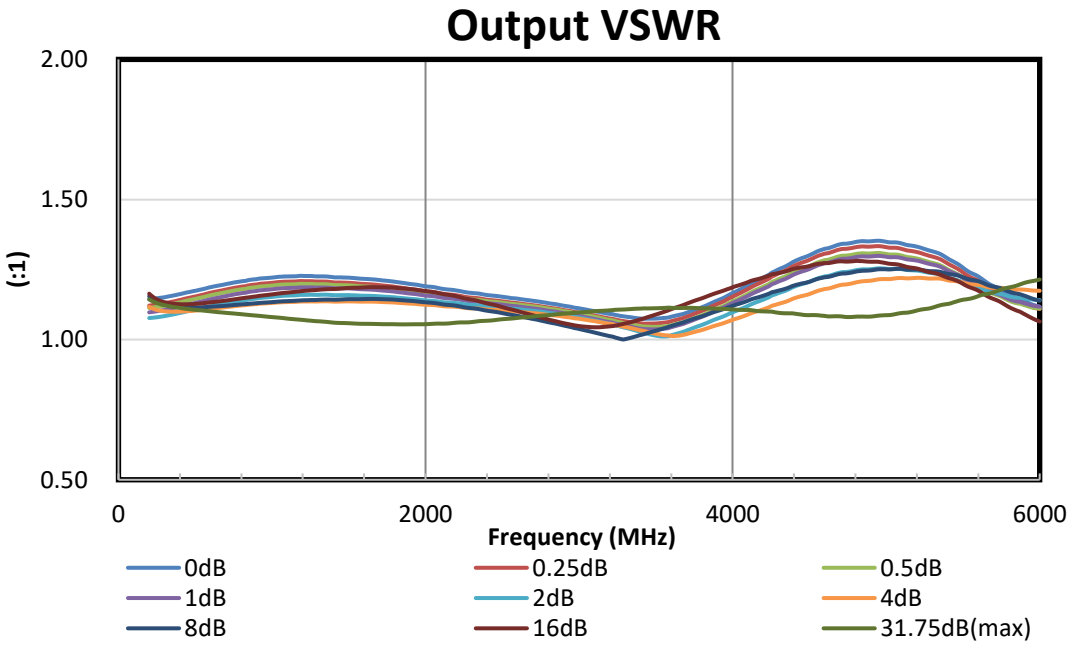
Insertion Loss



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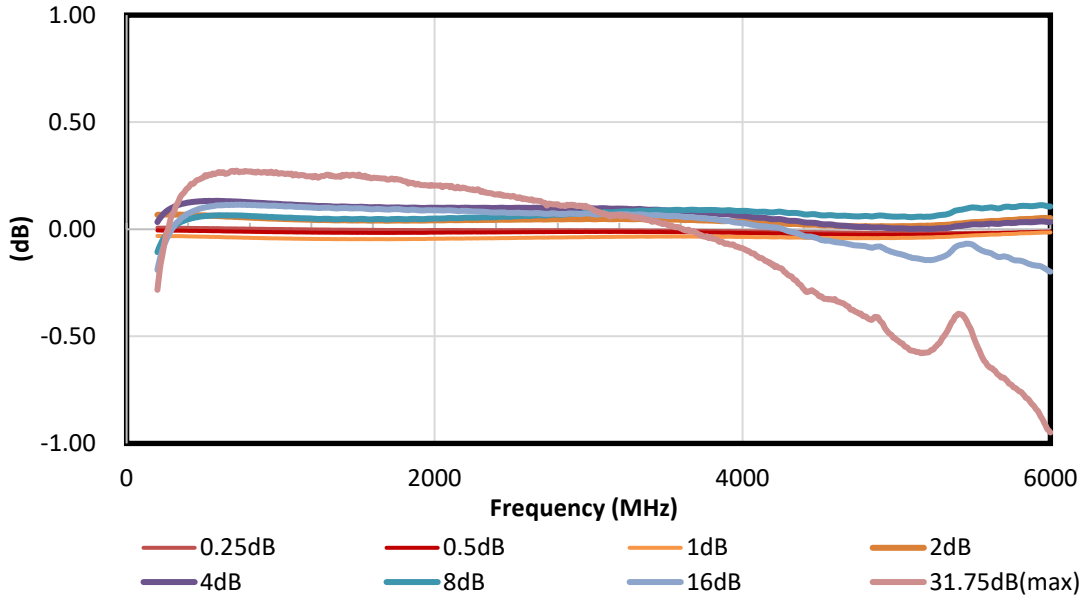




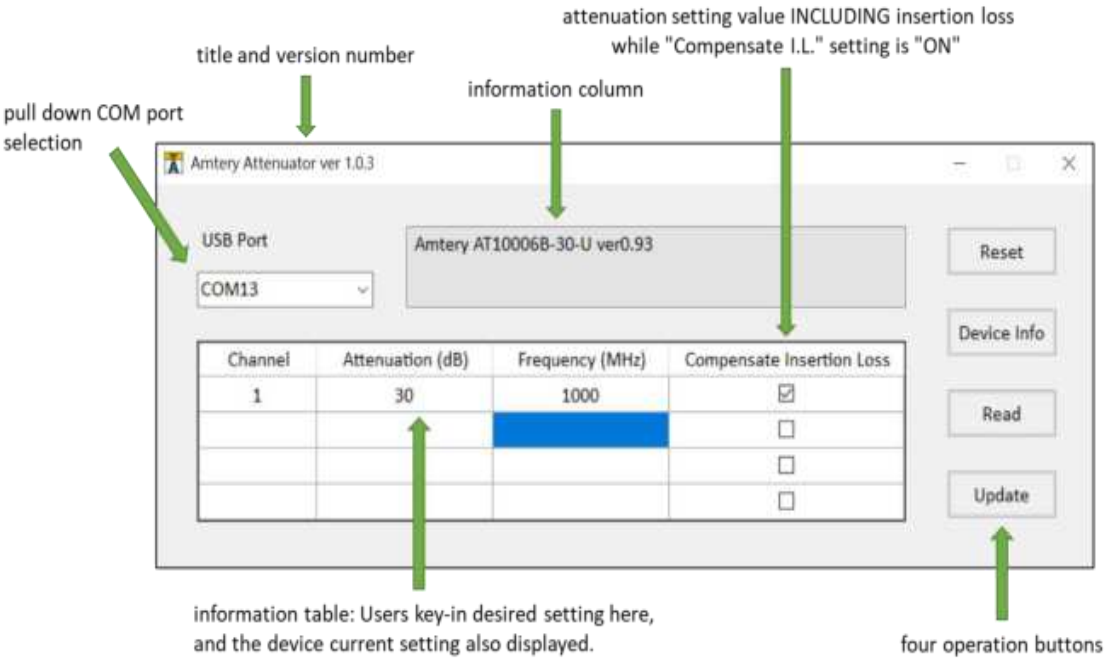
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Typical Attenuation Accuracy



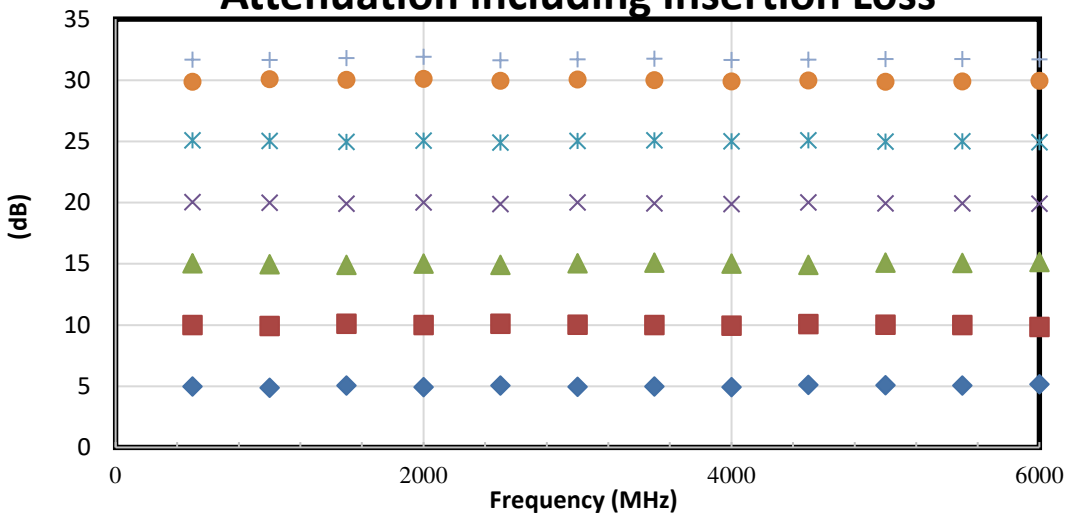
Amtery Graphical User Interface (GUI)



Software Support: https://www.amtery.com/data/files/Software.zip

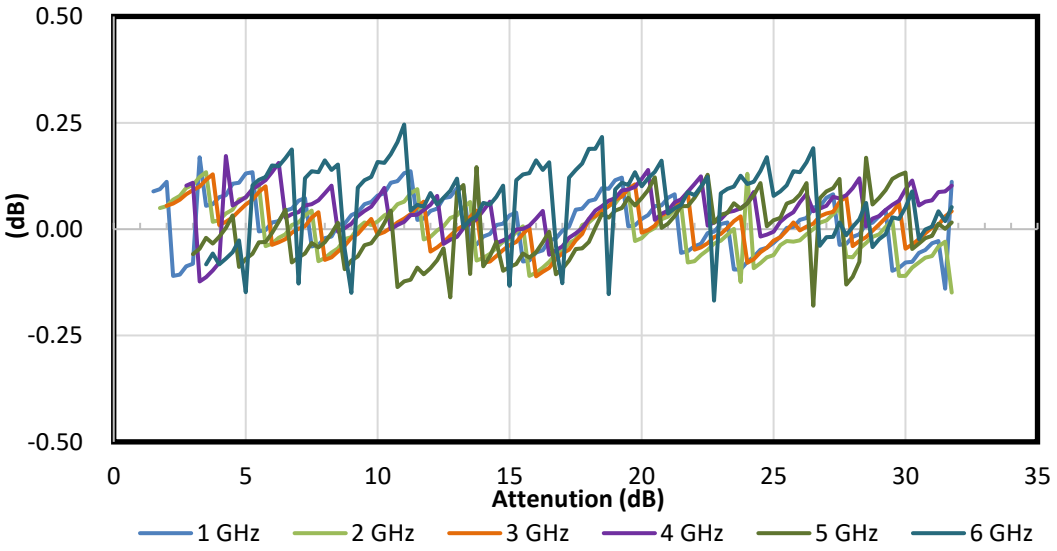
User manual: http://www.amtery.com/data/files/User%20Manual.pdf

Attenuation including Insertion Loss



Att. Setting: ◆5dB ■10dB ▲15dB ×20dB ✳25dB ●30dB +31.75dB
while "Compensate I.L" setting is "ON"

Typical Attenuation Accuracy with Insertion Loss Compensated



Typical performance S-parameter file: https://www.amtery.com/en/goods-88
For each S/N S-parameter file, go to https://www.amtery.com/en/downloads
Note: Specifications are subject to change without notice.