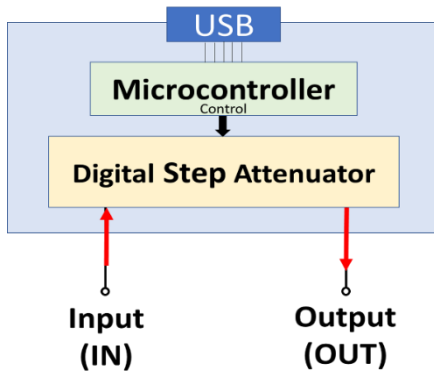




RoHS Compliant



Electrical Schematic

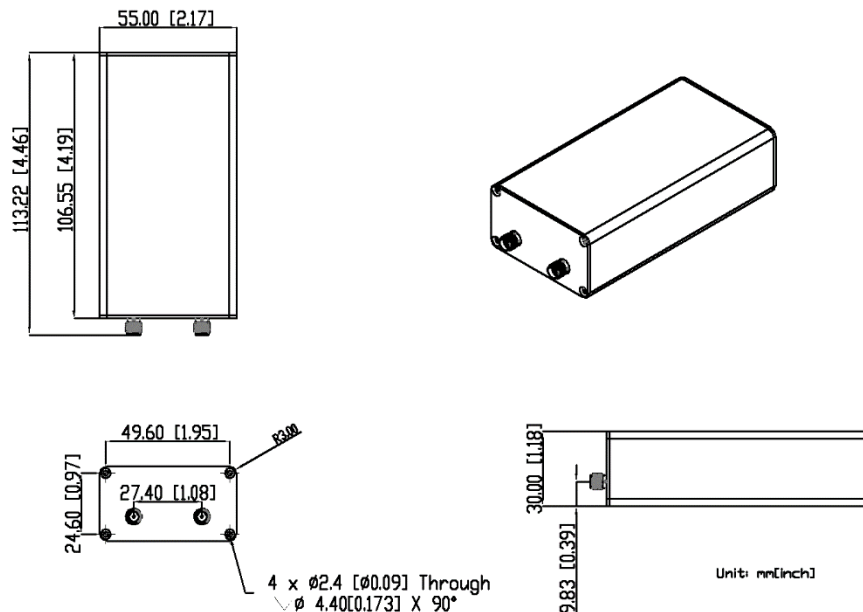
**Insertion Loss Compensated**

**No Extra Insertion Loss**

**Setting Attenuation = Actual Attenuation**

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)

### Electrical Specifications

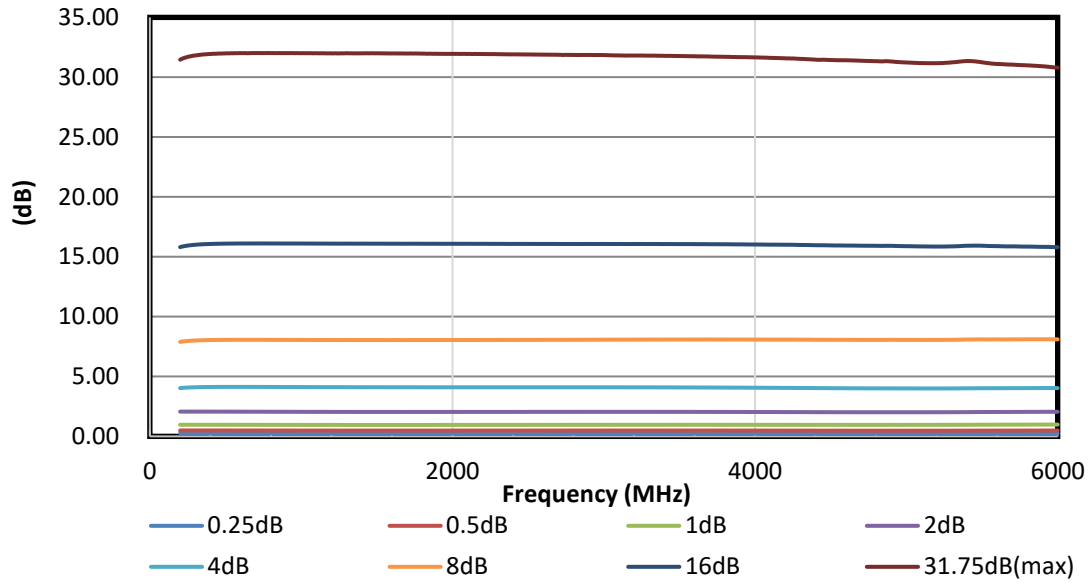
Parameter		Unit	Frequency (MHz)	Conditions	Min.	Typ.	Max.	
Attenuation Range		dB	200 - 6000		0		31.75	
Step		dB				0.25		
Insertion Loss (I.L.)		dB		@ 0 dB Att.		3.2	3.4	
Attenuation Accuracy	Compensate I.L. "OFF" <i>Note1</i> (I.L. Excluded)	dB		@ 0.25 dB Att.		±0.02	±0.03	
				@ 0.5, 1, 2 dB Att.		±0.07	±0.10	
				@ 4, 8, 16 dB Att.		±0.20	±0.32	
	Compensate I.L. "ON" <i>Note2</i> (I.L. Included)	dB		@ 31.75 dB Att.		±0.95	±1.10	
				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.

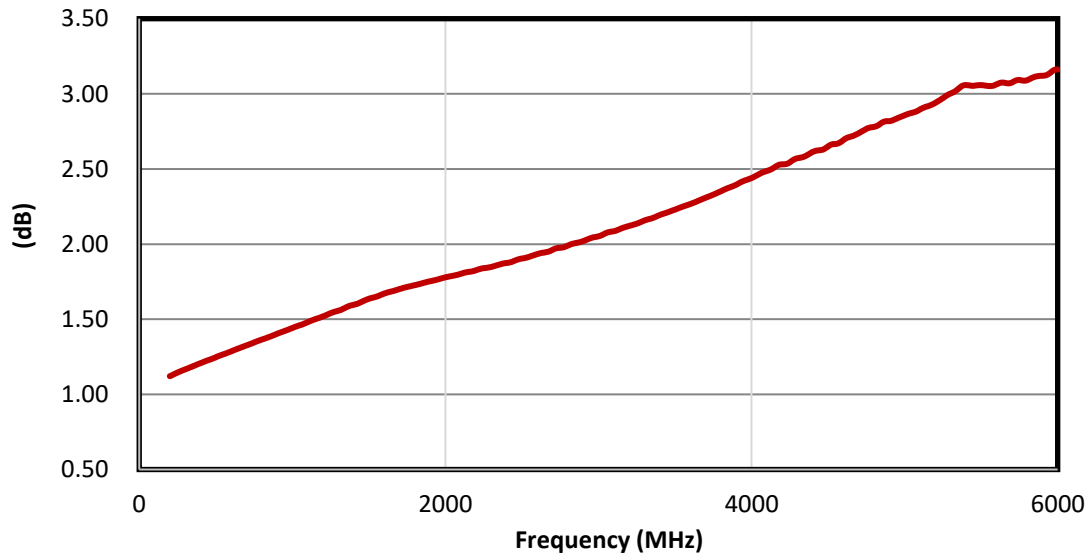
*Note1* Max accuracy is relative to attenuation setting value EXCLUDING insertion loss while "Compensate I.L." setting is "OFF".

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

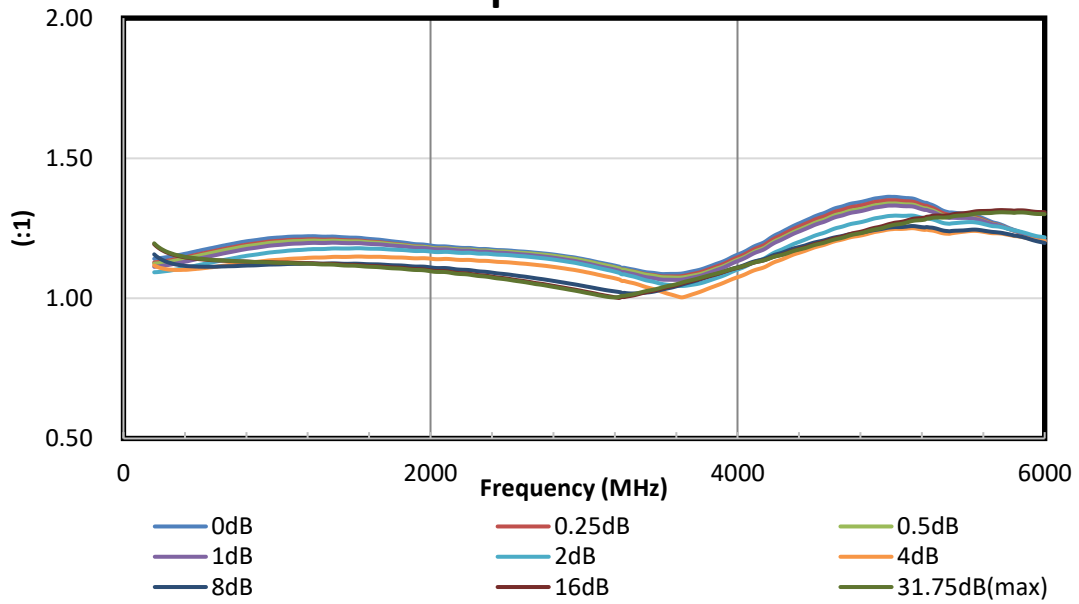
### Attenuation relative to Insertion Loss



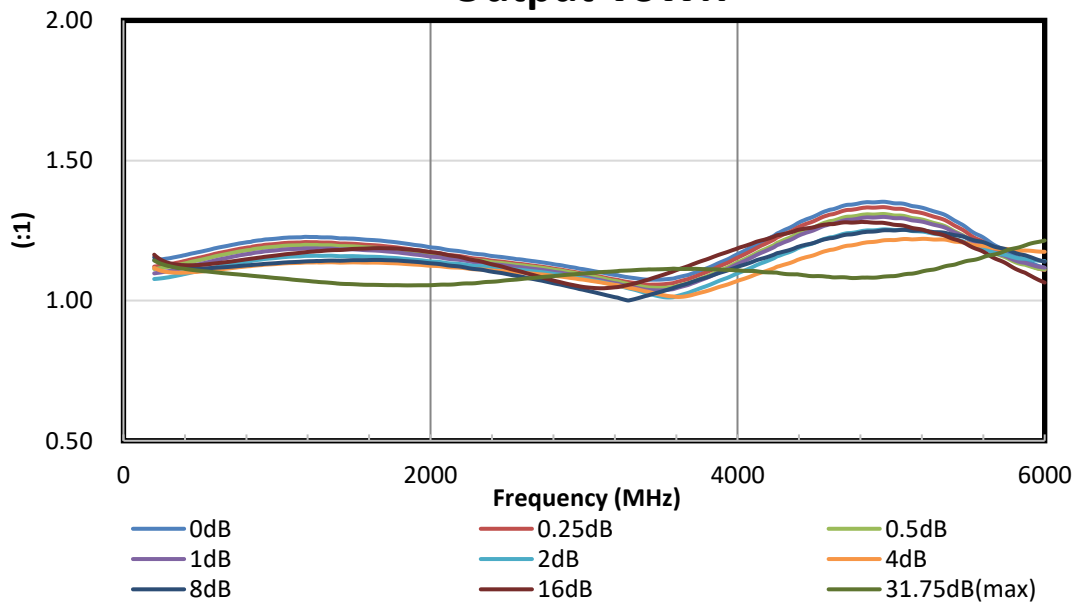
### Insertion Loss



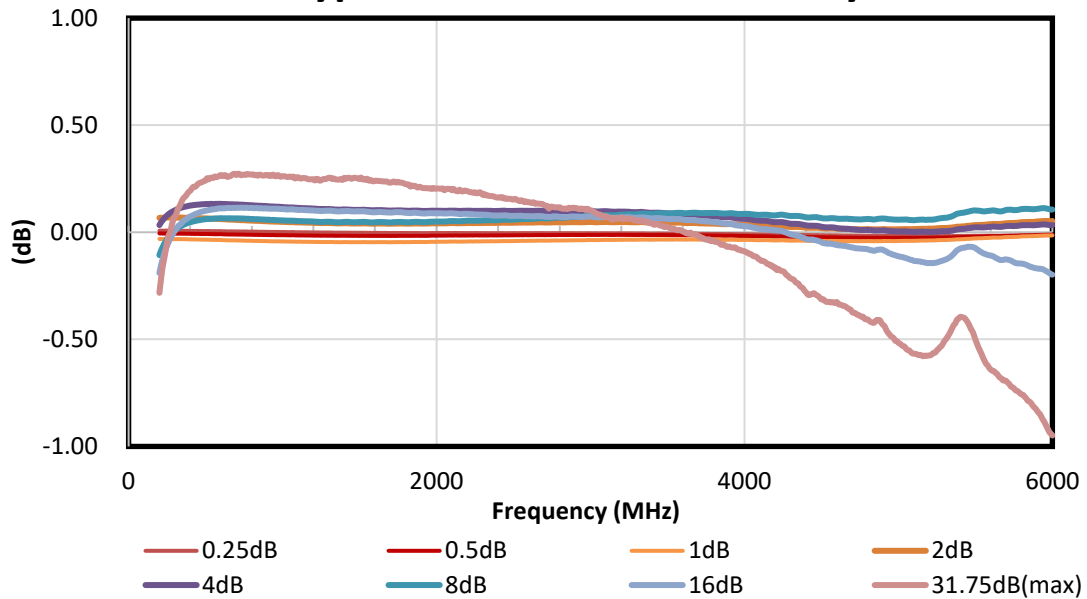
### Input VSWR



### Output VSWR



### Typical Attenuation Accuracy



### Amtery Graphical User Interface (GUI)

pull down COM port selection

title and version number

information column

attenuation setting value INCLUDING insertion loss while "Compensate I.L." setting is "ON"

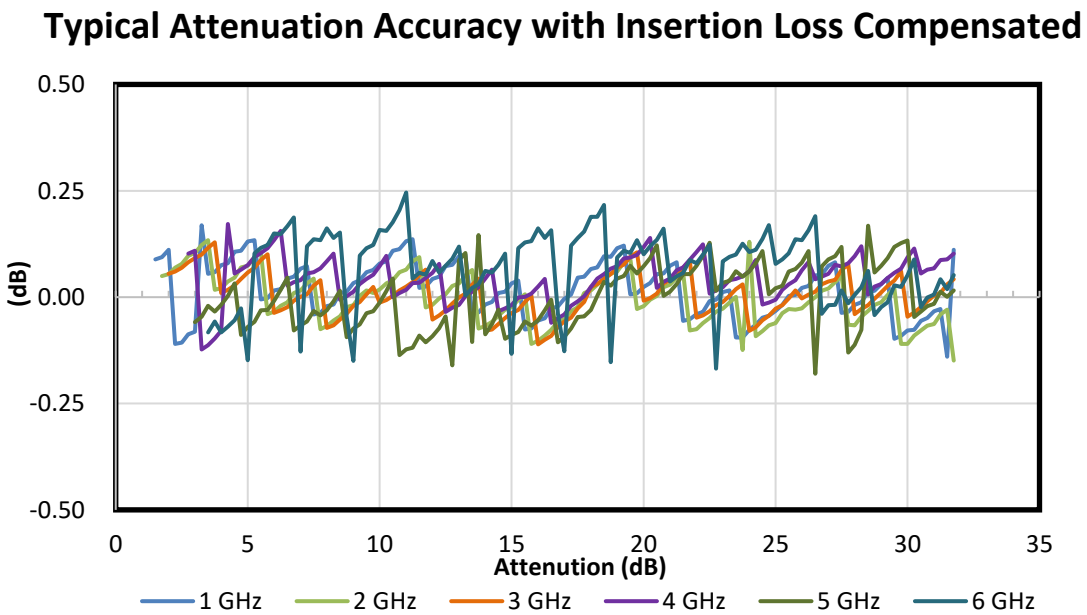
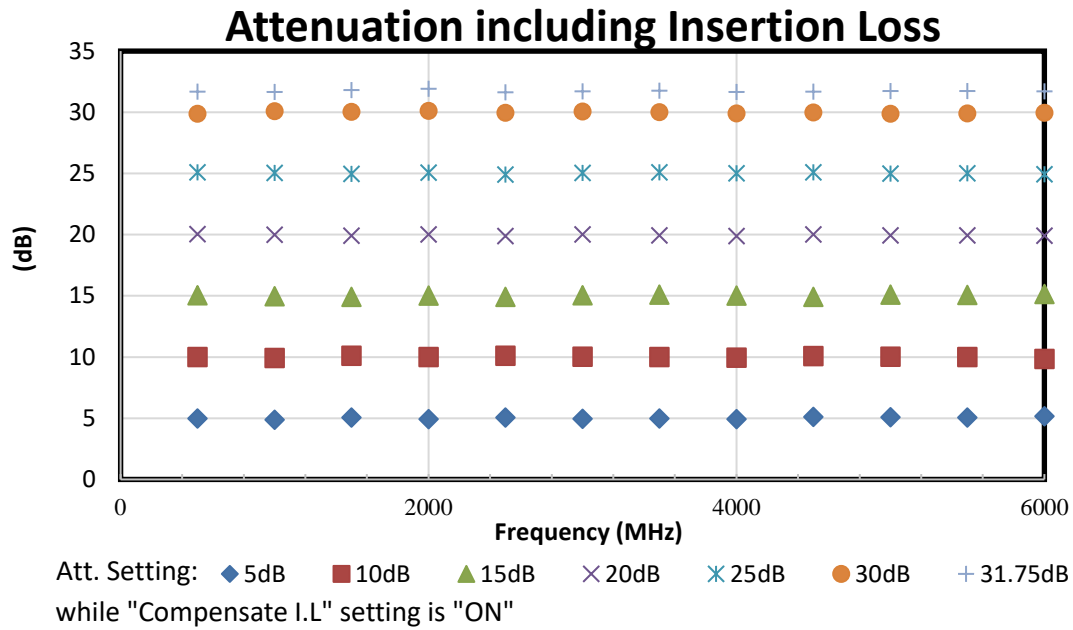
information table: Users key-in desired setting here, and the device current setting also displayed.

four operation buttons

Channel	Attenuation (dB)	Frequency (MHz)	Compensate Insertion Loss
1	30	1000	<input checked="" type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

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

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



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.