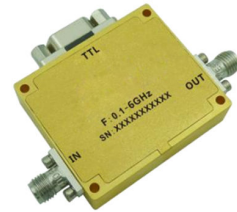




Absorptive Digital Control Attenuator 0.1-6GHz

Features

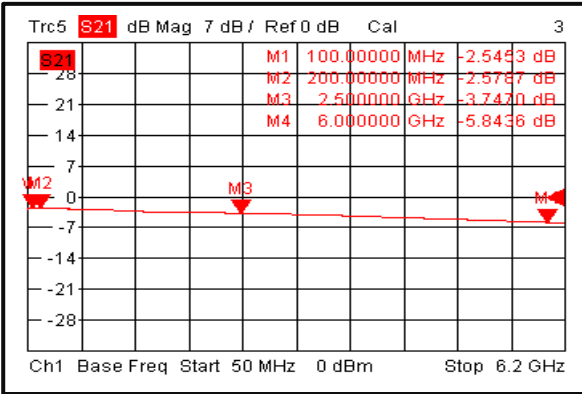
- Ultra Wide Band Operation 0.1-6GHz
- 0.5dB LSB Steps to 63.5dB
- Single Positive Control Line Per Bit
- Customization available upon request



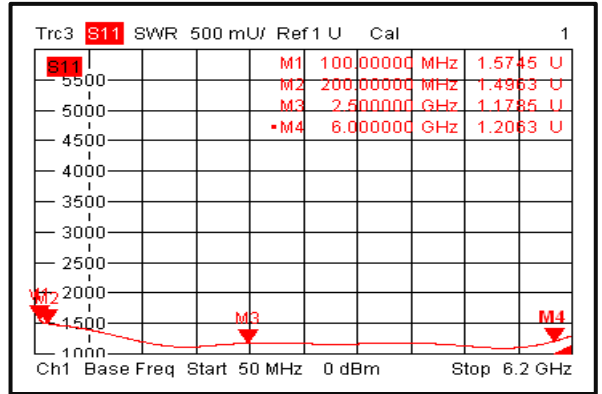
Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.1		0.2	0.2		2.5	2.5		6	GHz
Attenuation Range	59.0	63.5		57.5	63.5		60.0	63.50		dB
Attenuation Flatness: (Referenced to Insertion Loss)		±0.5			±0.8			±1.0		dB
Control Bits	7									Bit
Control Step size		0.5			0.5			0.5		dB
Insertion Loss		2.5	3.0		3.5	4.5		5.5	7.0	dB
Insertion Loss Temperature Coefficient		0.01			0.01			0.01		dB/ °C
Input VSWR (All Atten. States)		1.5	1.8		1.3	1.5		1.3	1.5	: 1
Output VSWR (All Atten. States)		1.5	1.8		1.3	1.5		1.3	1.5	: 1
Input 0.1 dB Compression Point		30			30			30		dBm
IP3 Input		50			52			54		dBm
Switching Speed 50% CTRL* to 90% or 10%	150 Typ.									ns
Weight	1.15 Max.									ounces
Impedance	50									Ω
Bias Current (+5V)	40Max.									mA
Input / Output Connectors	SMA - Female									
Interface and Control Connector	MICRO-D15(Female)									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Hermetically Sealed (Optional)									



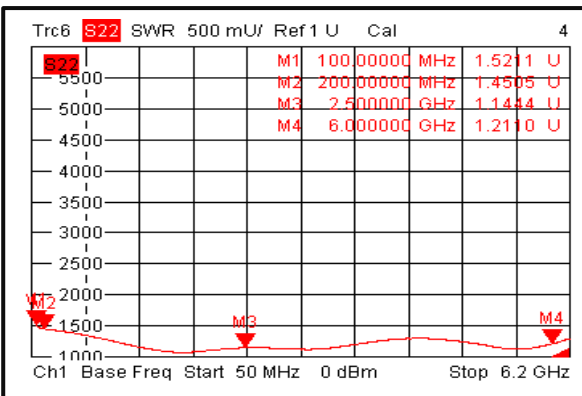
Insertion Loss @+25°C



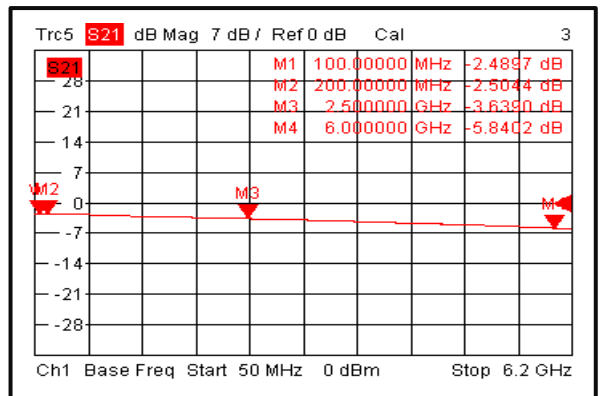
Input VSWR @+25°C



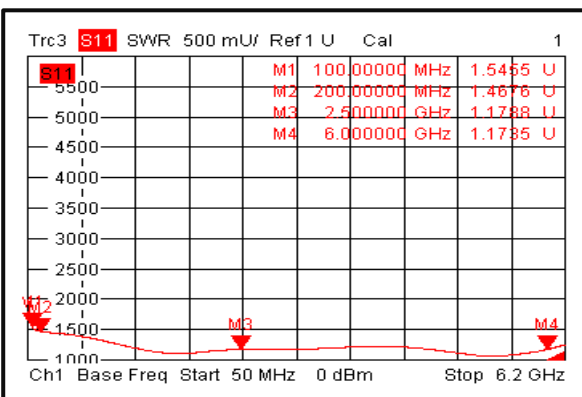
Output VSWR @+25°C



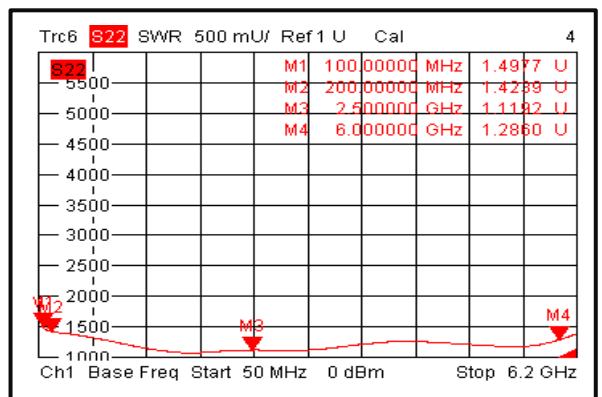
Insertion Loss @-40°C



Input VSWR @-40°C

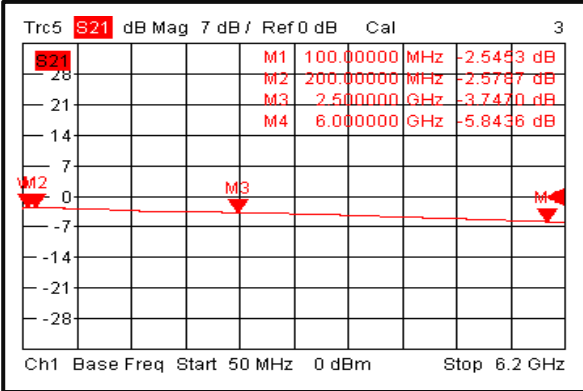


Output VSWR @-40°C

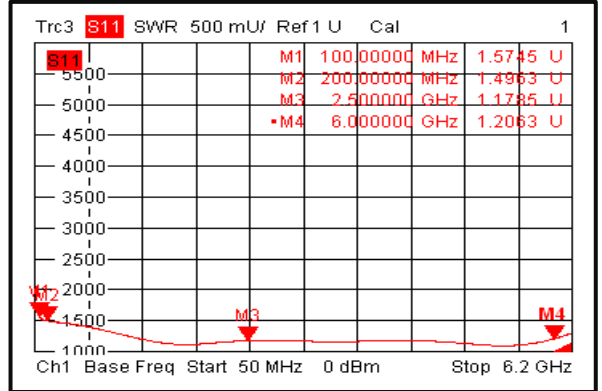




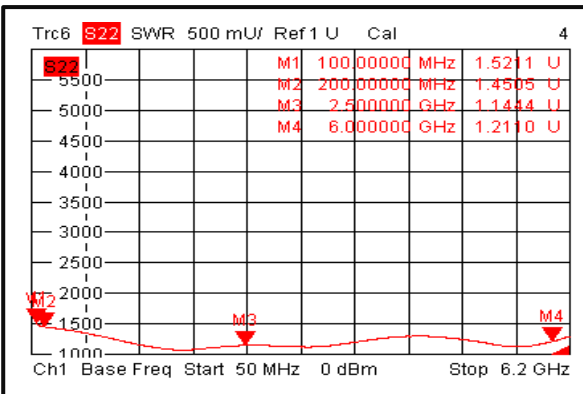
Insertion Loss @+85°C



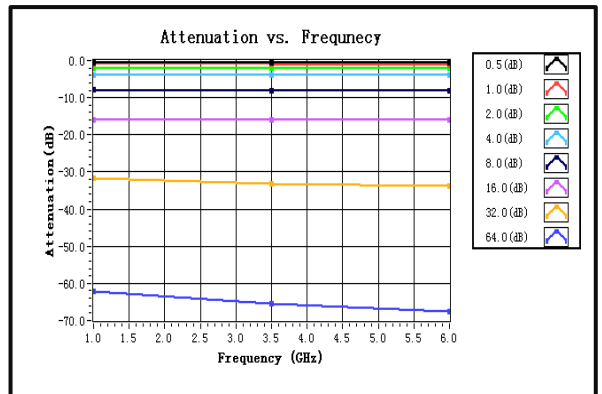
Input VSWR @+85°C



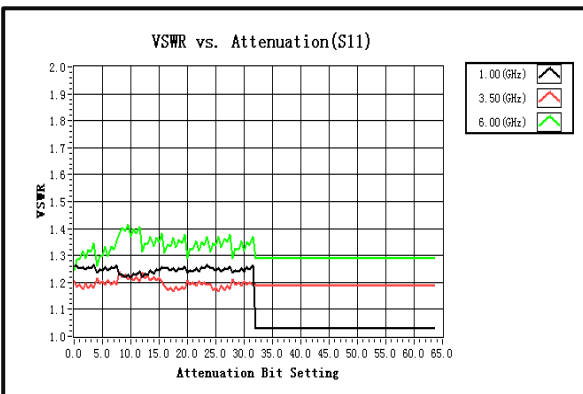
Output VSWR @+85°C



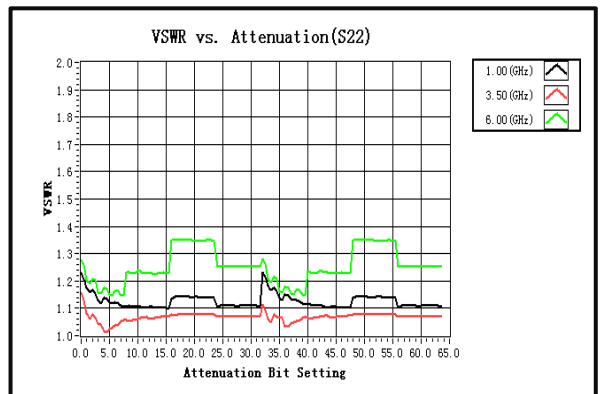
Attenuation vs. Frequency



VSWR vs. Attenuation(S11)

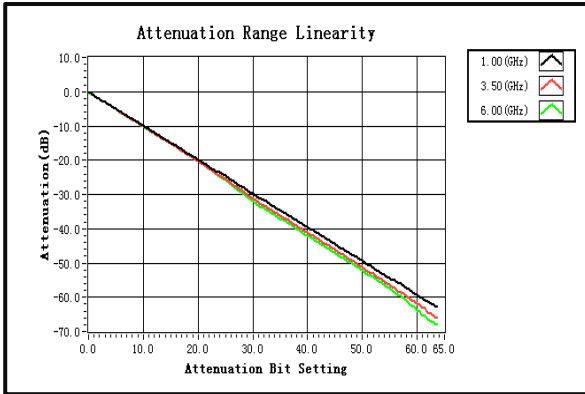


VSWR vs. Attenuation(S22)

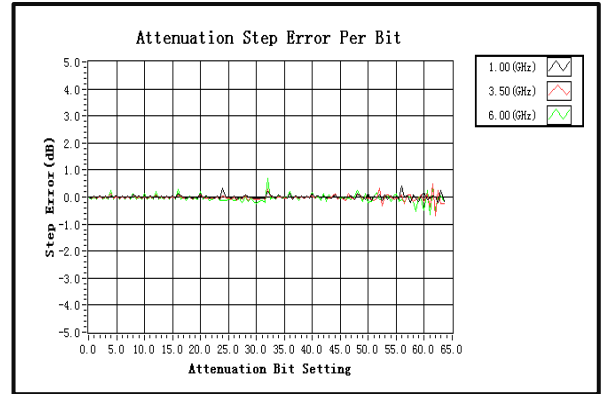




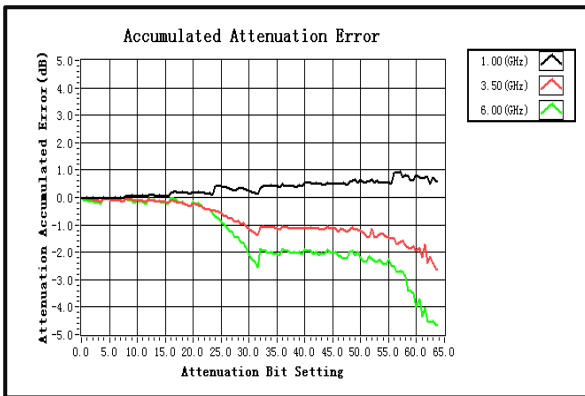
Attenuation Range Linearity



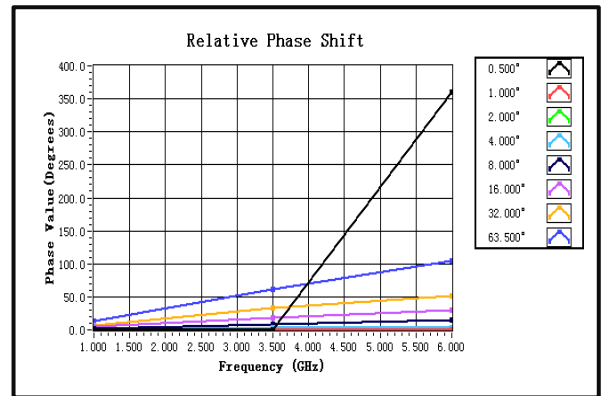
Attenuation Step Error Per Bit (dB)



Accumulated Attenuation Error (dB)



Relative Phase Shift



IIP3

