P/N:LBW-AT06-F18W1A1275-SFSF

Аттенюатор с цифровым управлением 0,1 - 18 ГГц

Характеристики:

- Ультраширокий диапазон рабочих частот: от 0,1 до 18 ГГц
- Ослабление до 127,5 дБ с шагом 0,5 дБ
- Одна линия управления (посредством положительного напряжения)
- Возможны доработки по требованию заказчика

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.1~6			6~18			GHz
Attenuation Range			127.5			127.5	dB
Insertion Loss		11	15		19.5	21.5	dB
Insertion Loss Temperature Coefficient		0.01			0.01		dB/ °C
Attenuation Flatness: (Referenced to Insertion Loss)		±2.0	±3.0		±4.0	±5.0	dB
Control Bits			8			8	Bit
Control Step size	0.5			0.5			dB
Input VSWR(All Atten. States)		1.9	2.5		1.9	2.2	: 1
Output VSWR (All Atten. States)		1.9	2.5		1.9	2.2	: 1
Input 0.1 dB Compression Point (P0.1dB)		25			25		dBm
IP3 Input		45			45		dBm
Switching Speed	200						ns
Weight	2.12						ounces
Impedance	50						Ω
Bias Current (+5V / - 5V)	140/140						mA
Input / Output Connectors	SMA-Female						
Interface and control connertor	MICRO-D15(Female)						
Finish	Gold Plated						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						

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Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2.8~5V

Environmental Specifications

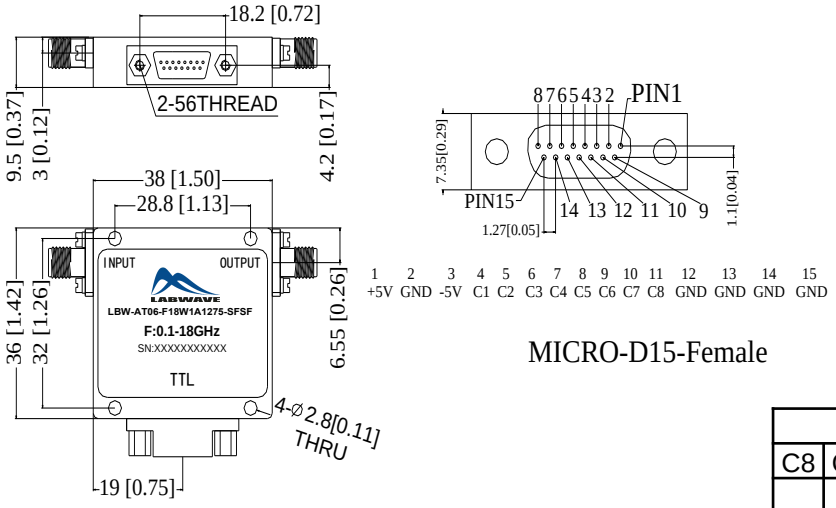
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Ordering Information

Part No.	Description
LBW-AT06-F18W1A1275-SFSF	0.1-18GHz Digital Control Attenuator

Outline Drawing:

All Dimensions in mm (inches)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
+5V GND -5V C1 C2 C3 C4 C5 C6 C7 C8 GND GND GND GND

MICRO-D15-Female

Truth Table

Control Voltage Input								Attenuation state
C8	C7	C6	C5	C4	C3	C2	C1	
1	1	1	1	1	1	1	1	Reference IL
1	1	1	1	1	1	1	0	0.5dB
1	1	1	1	1	1	0	1	1dB
1	1	1	1	1	0	1	1	2dB
1	1	1	1	0	1	1	1	4dB
1	1	1	0	1	1	1	1	8dB
1	1	0	1	1	1	1	1	16dB
1	0	1	1	1	1	1	1	32dB
0	1	1	1	1	1	1	1	64dB
0	0	0	0	0	0	0	0	127.5dB

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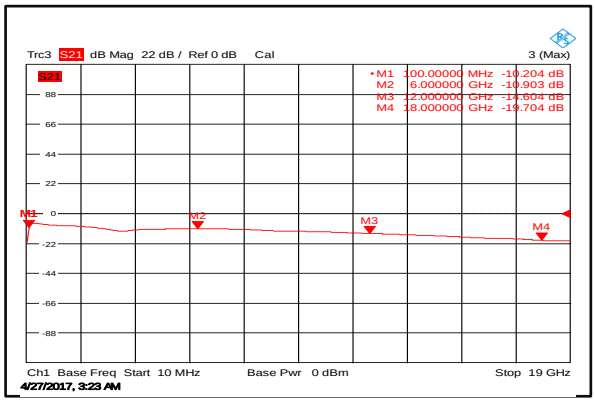
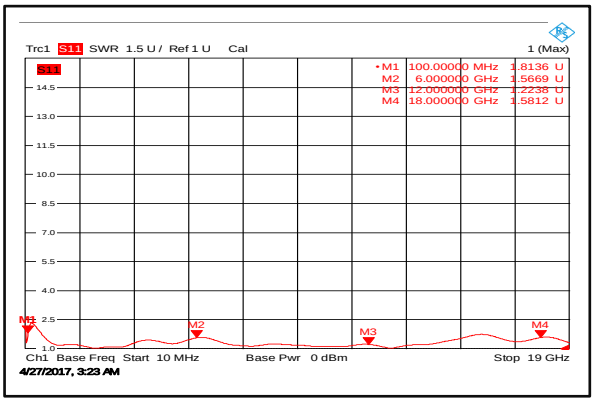
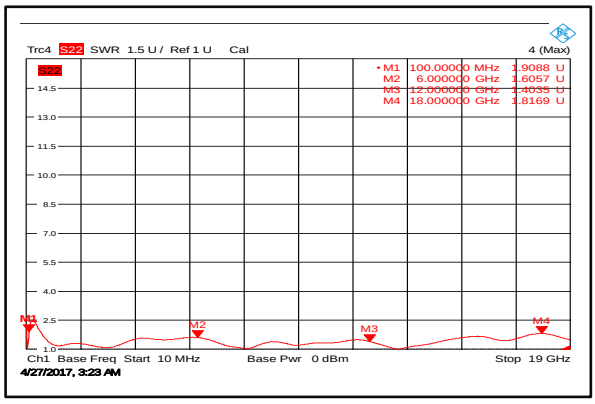
Insertion Loss



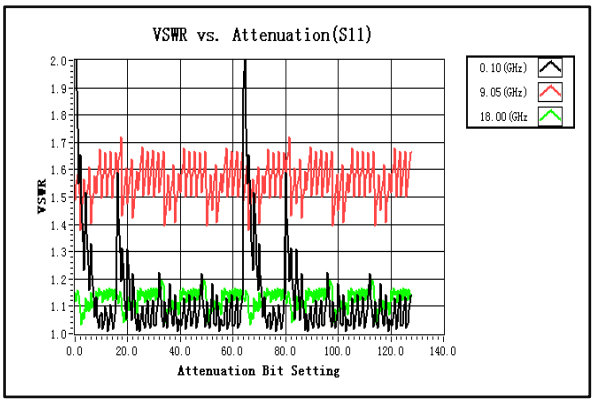
Input VSWR



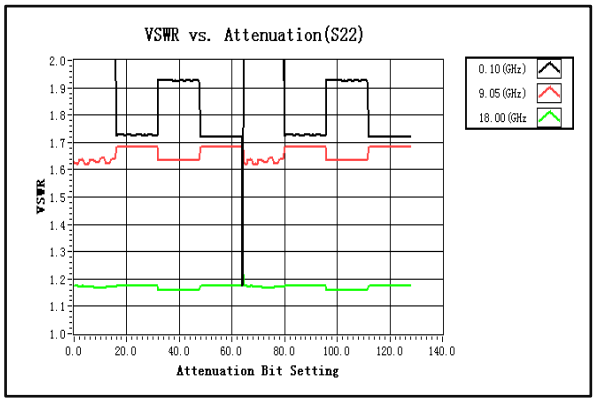
Output VSWR



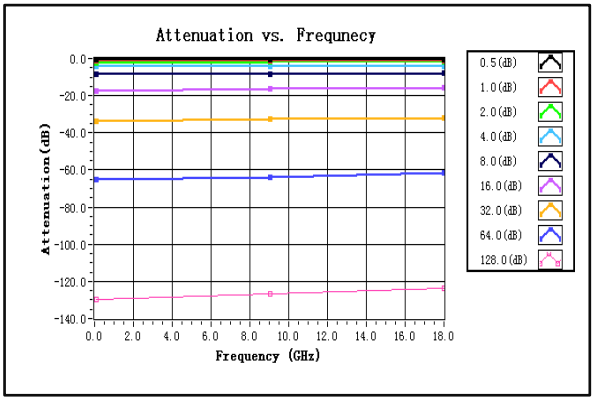
VSWR vs. Attenuation(S11)



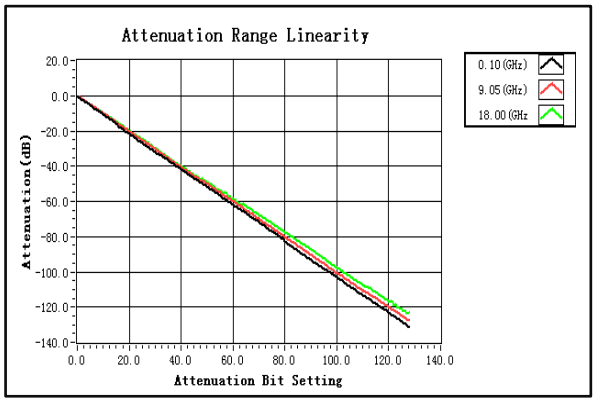
VSWR vs. Attenuation(S22)



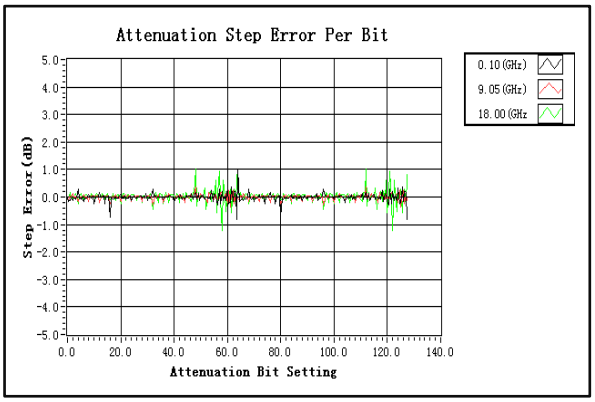
Attenuation Flatness vs. Frequnecy



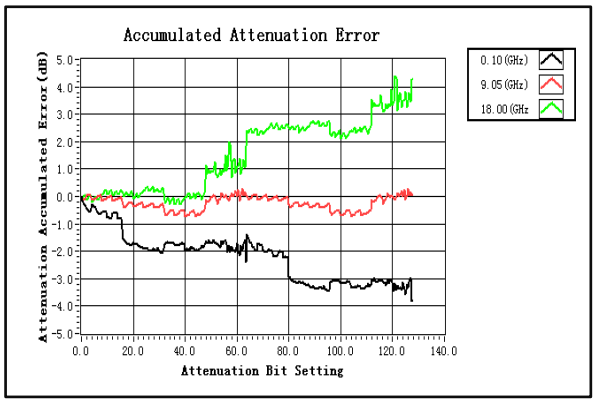
Attenuation Range Linearity



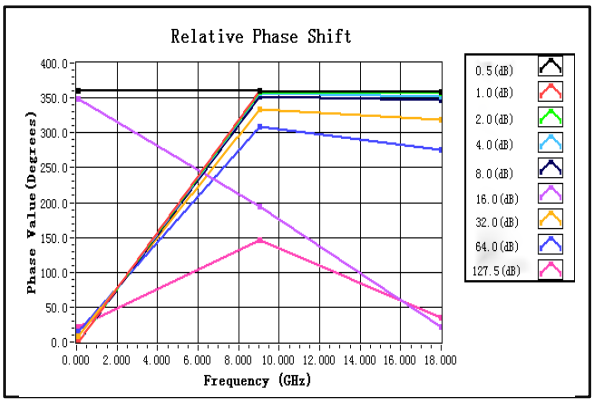
Attenuation Step Error Per Bit (dB)



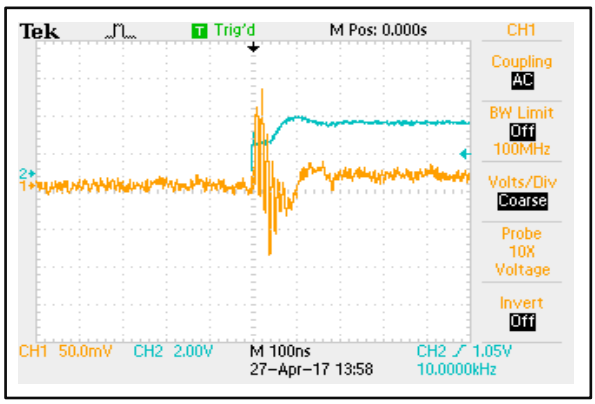
Accumulated Attenuation Error(dB)



Relative Phase Shift



Speed



Speed