



8 Bits 127dB Digital Control Attenuator 0.1-18GHz

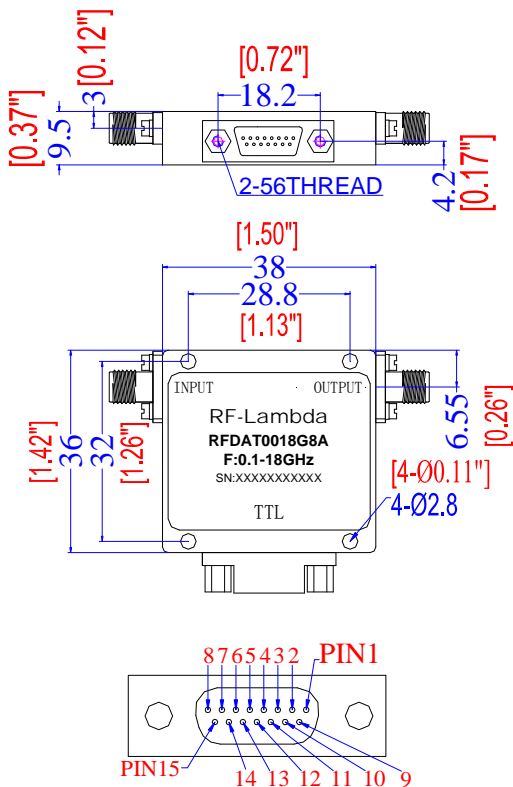


Features

- Wide Band Operation 0.1-18GHz
- High Power Handle up to 1W upon request.
- High Dynamic Range over 127dB
- Low attenuation error 8 bits
- Operation Temperature Range -40°C~+85°C
- Customization available upon request

Absorptive 8 Bits 127dB Digital Control Attenuator 0.1-18GHz

Single Port Absorptive Digital Control Attenuator								
Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR	Control bits	Step (dB)	Attenuation Range (dB)	Flatness (dB)	Power (Watts)
RFDAT0018G8A	0.1-18	22	2.5	8	0.5	127.5	±2.5	P1dB=1W min



Mechanical Specification

- Case Style: As shown
- Finishing: Gold plating for brass material
- Other finishing available
- Connector: SMA-F Per MIL-C-39012
- Seal: Laser Seal
- Control PIN: 0.02" dia x 0.15" solder pins
- Weight: 200 grams max.

Electrical Operation

- Control DC : ±5v
- Max Current: 50mA
- High Digital Biasing is required for high RF power model.

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

M I C R O - D 15

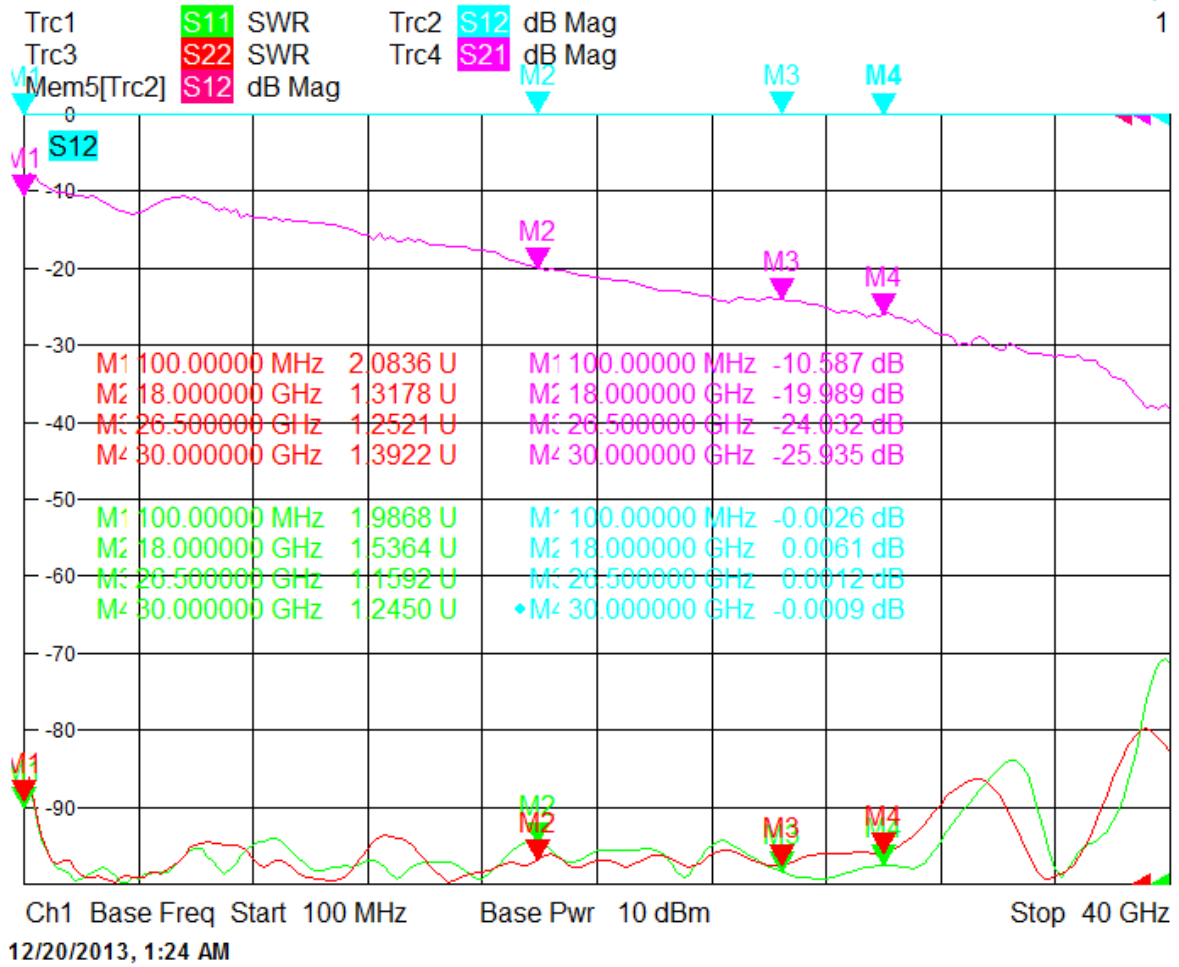
All logic "1" for Reference I.L.



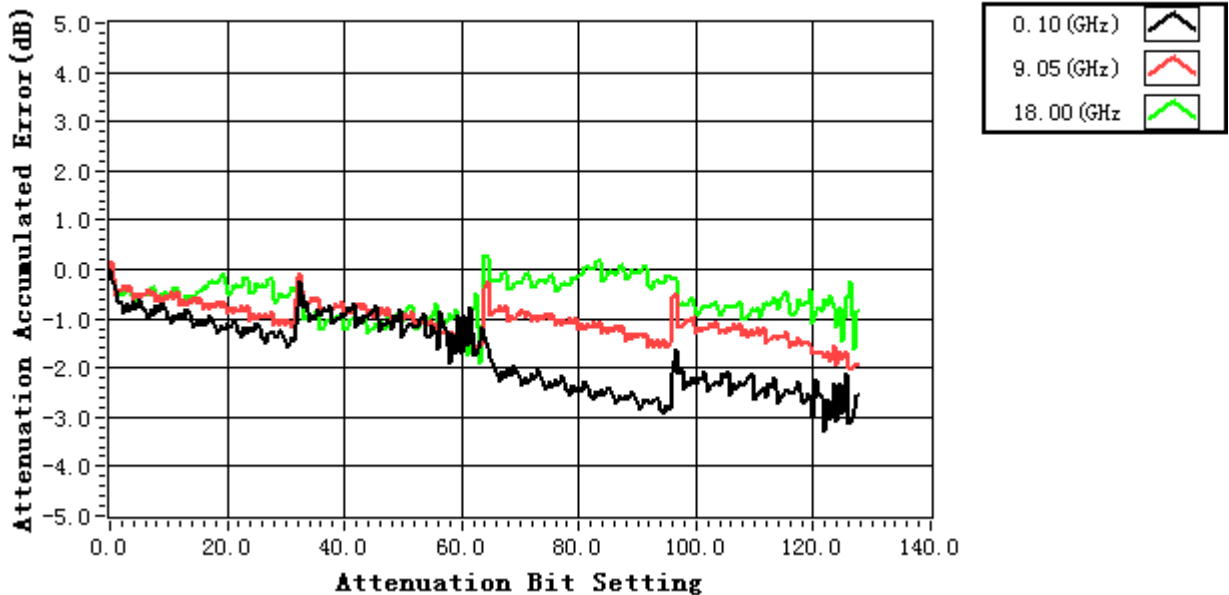
RF-LAMBDA

The power beyond expectations

RFDAT0018G8A



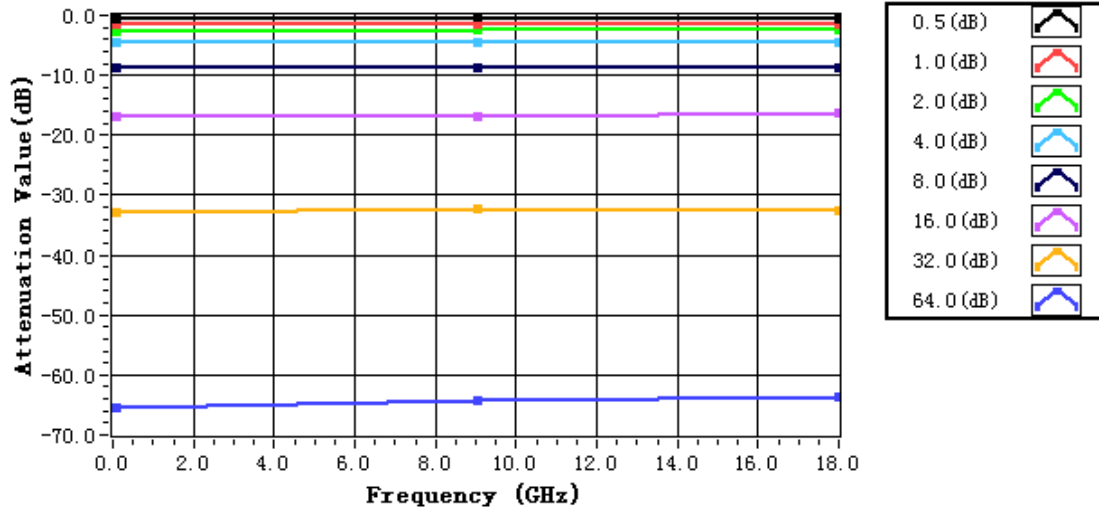
Accumulated Attenuation Error (dB)



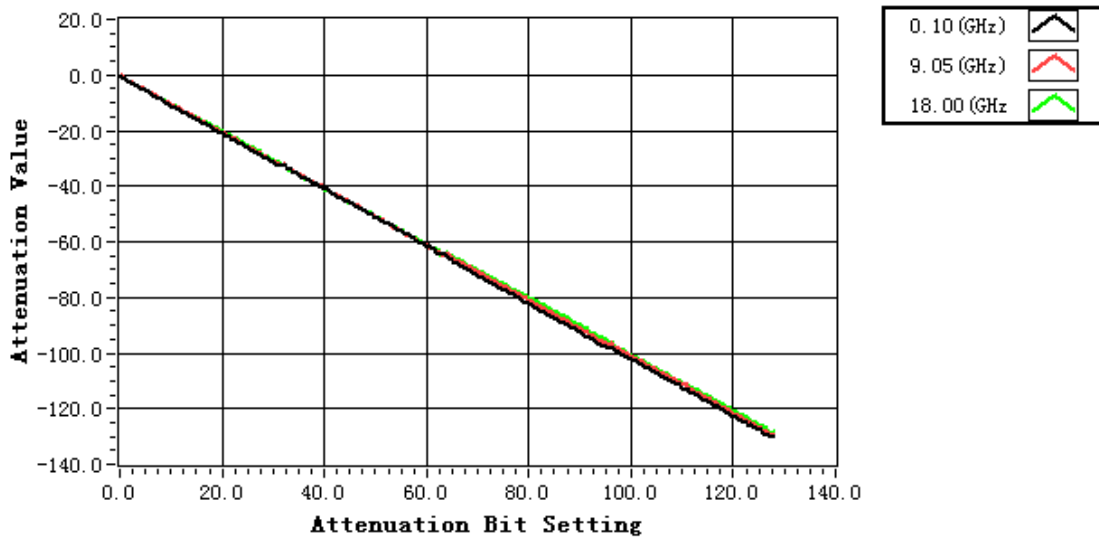
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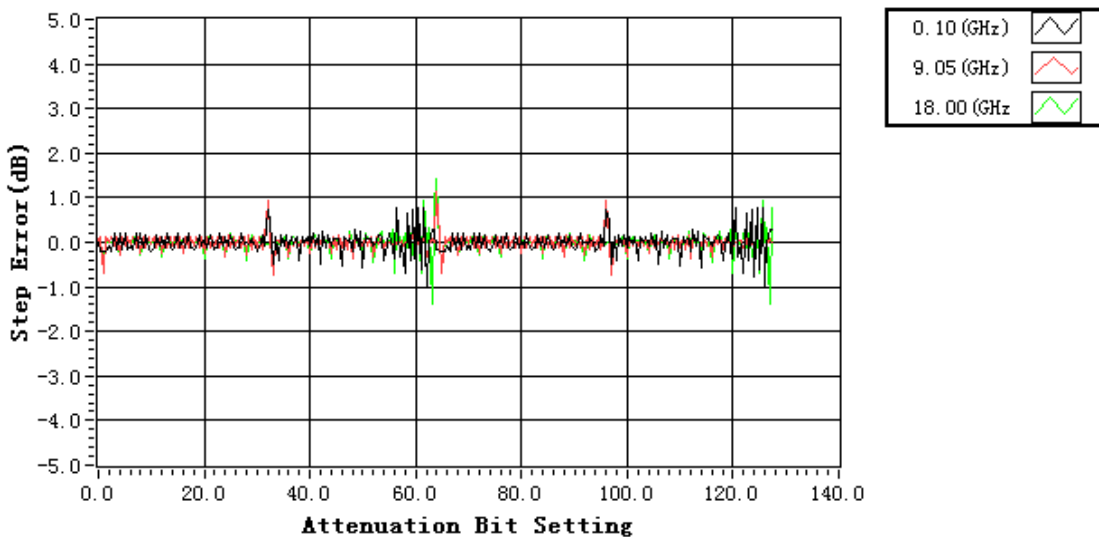
Attenuation Flatness vs. Frequency



Attenuation Range Linearity



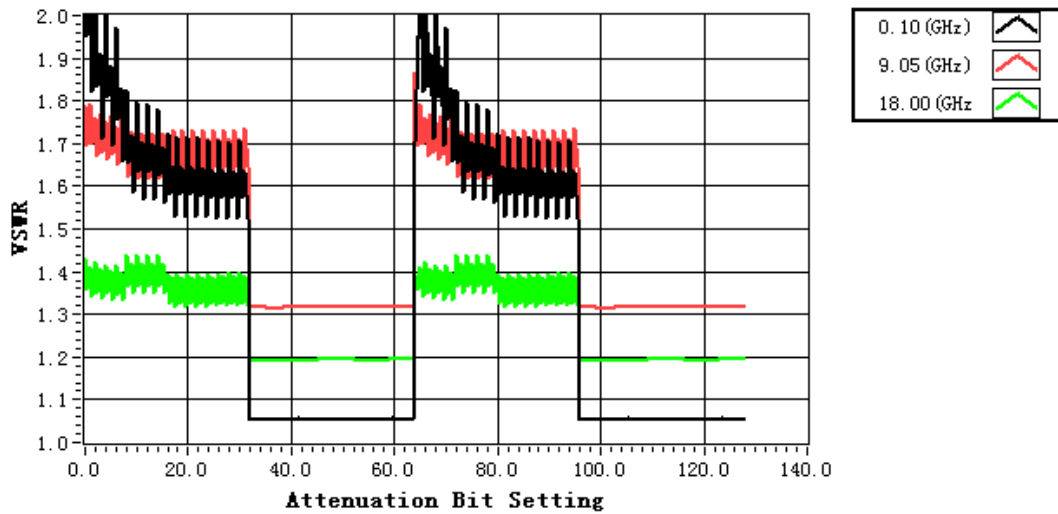
Attenuation Step Error Per Bit (dB)



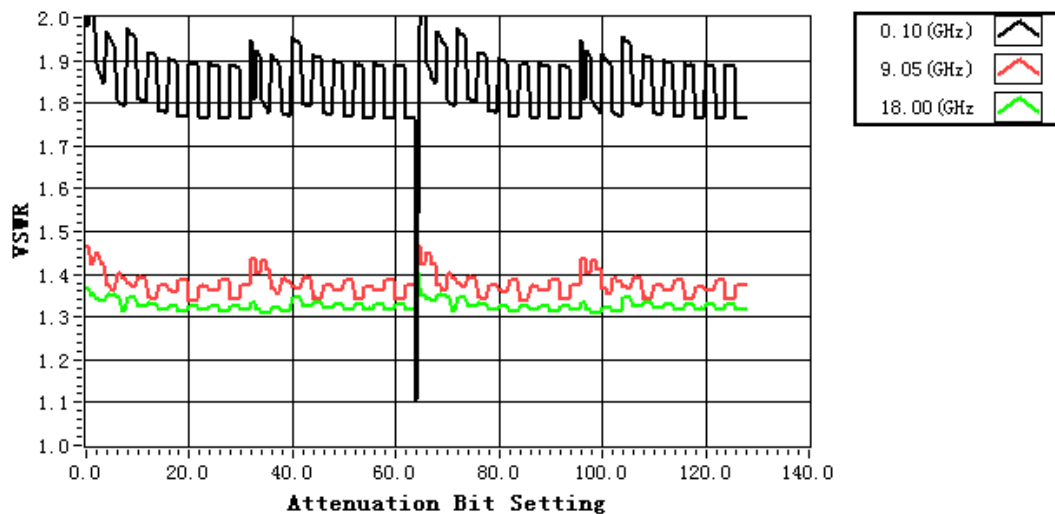
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VSWR vs. Attenuation(S11)



VSWR vs. Attenuation(S22)



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