



RF-LAMBDA

The power beyond expectations

RFDAT0812G8A

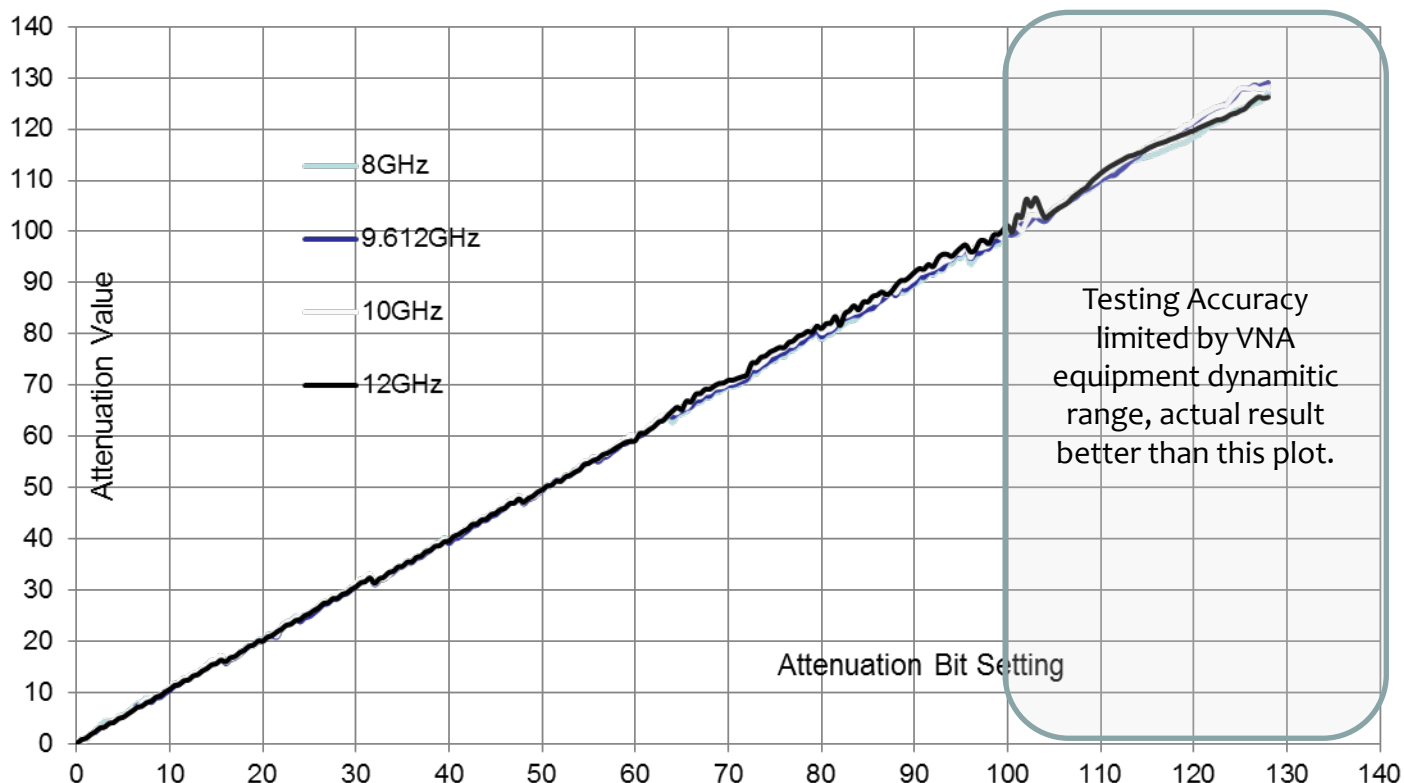
ABSORPTIVE 8.0-12.0GHz 8 Bits 128dB PIN DIODE ATTENUATOR



- Wide Band Operation 8-12GHz
- High Power Handle Capability up to 1W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss good attenuation accuracy
- Temperature Range -40°C~+85°C
- Customization available upon request

Absorptive type 8 bits digital control step attenuator

Part Number	Frequency (GHz)	Insert. Loss (dB)	VSWR (Max:1)	Step / Range (dB)	Avg. Power (Watts)	Switching Speed (ns)
RFDAT0812G8A	8-12	7dB typ. 10GHz	1.5:1	0.5dB / 128dB	+28dBm P1dB 1W no damage	50ns typ, 100ns max



Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz



RF-LAMBDA

The power beyond expectations

RFDAT0812G8A

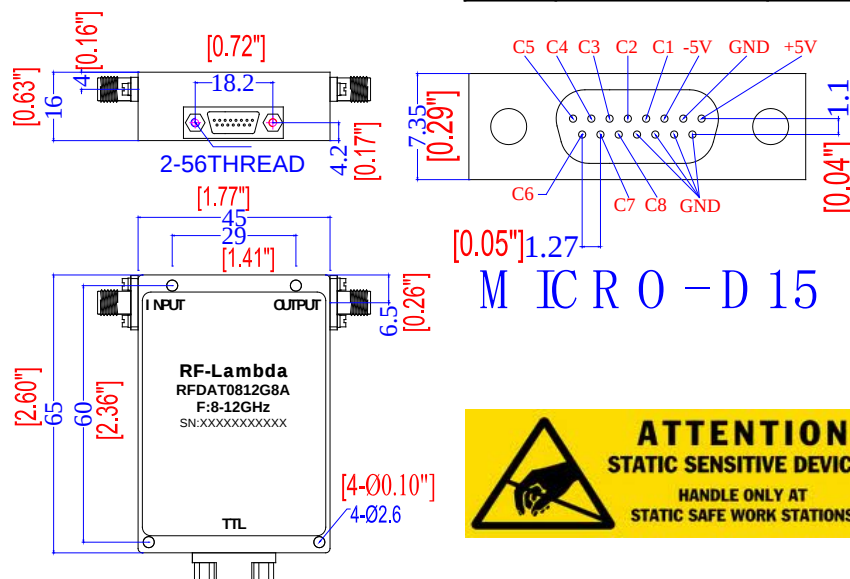
Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz

3.0	Electrical Specifications	
3.1	Frequency Range	8.0GHz-12.0GHz
3.2	Attenuation Range	125dB min
3.3	Power	+28dBm P1dB 1W CW no damage
3.4	Insertion Loss	7.0dB typ, 9.0dB max.
3.5	Max. VSWR	1.5:1
3.6	Step	0.5dB
3.7	Accuracy	+/-1.0dB (<50dB range)
3.8	Flatness	+/-2.0dB
3.9	Switching speed	50ns typ, 100ns max.
3.A	TTL Control	TTL High Enable
3.B	DC Control	-5V / +5V (100mA)
3.C	PIN	C1(0.5dB) C2(1dB) C3(2dB) C4(4dB) C5(8dB) C6(16dB) C7(32dB) C8(64dB) -5V +5V , GND

C8	C7	C6	C5	C4	C3	C2	C1	Attenuation (dB)
1	1	1	1	1	1	1	1	Insertion Loss
1	1	1	1	1	1	1	0	0.5
1	1	1	1	1	1	0	1	1
1	1	1	1	1	0	1	1	2
1	1	1	1	0	1	1	1	4
1	1	1	0	1	1	1	1	8
1	1	0	1	1	1	1	1	16
1	0	1	1	1	1	1	1	32
0	1	1	1	1	1	1	1	64

2.0	Environment specifications	
2.1	Operation Temp.	-40°C~+85°C
2.2	Storage Temp.	-50°C~+125°C
2.3	Altitude	30,000 ft
2.4	Vibration	10g rms (15 degree 2KHz)
2.5	Humidity	100% RH at 35c, 95%RH at 40 deg c
2.6	Shock	20G for 11msc

1.0	Mechanical Specifications	
1.1	Basis-material	Brass
1.2	Connector	SMA Female
1.3	External Finish	Gold plating



MICRO-D 15



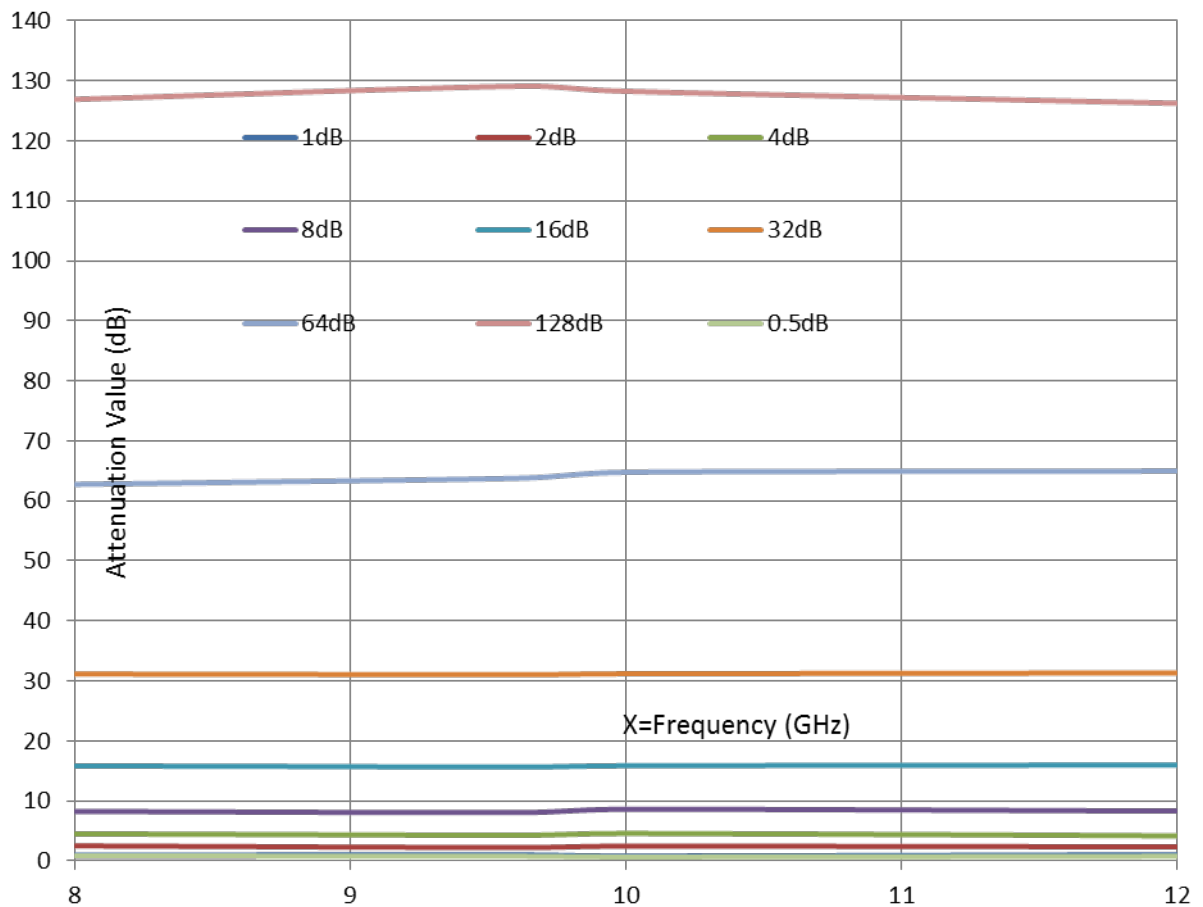
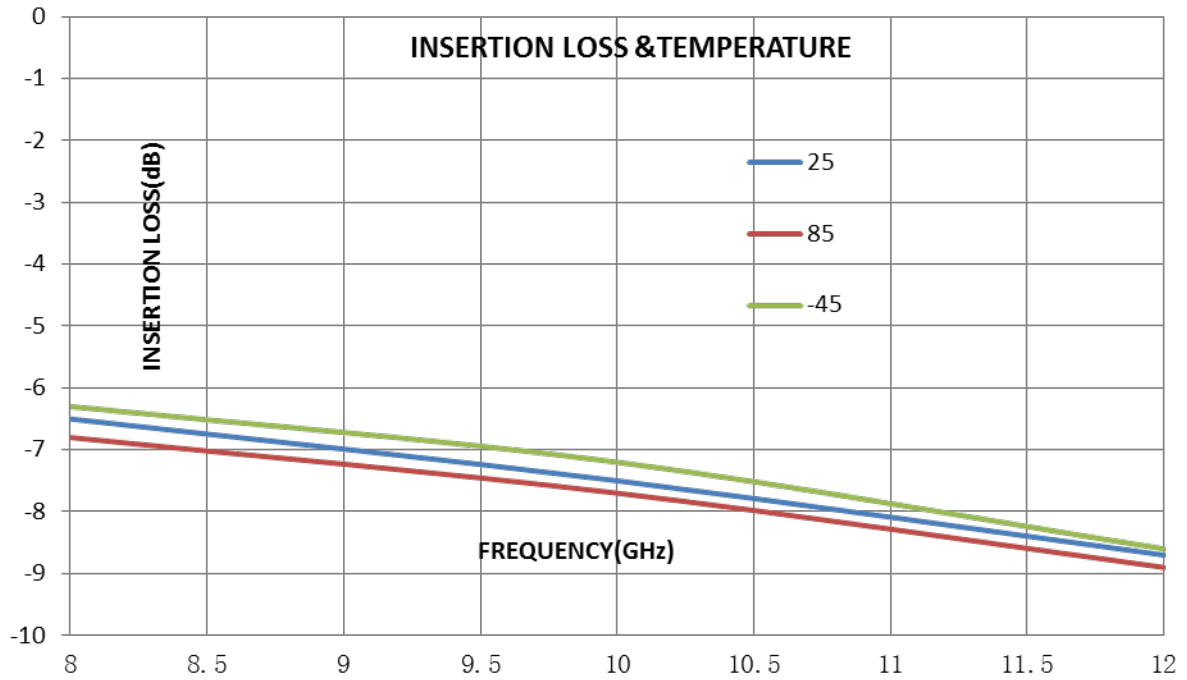


RF-LAMBDA

The power beyond expectations

RFDAT0812G8A

Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz



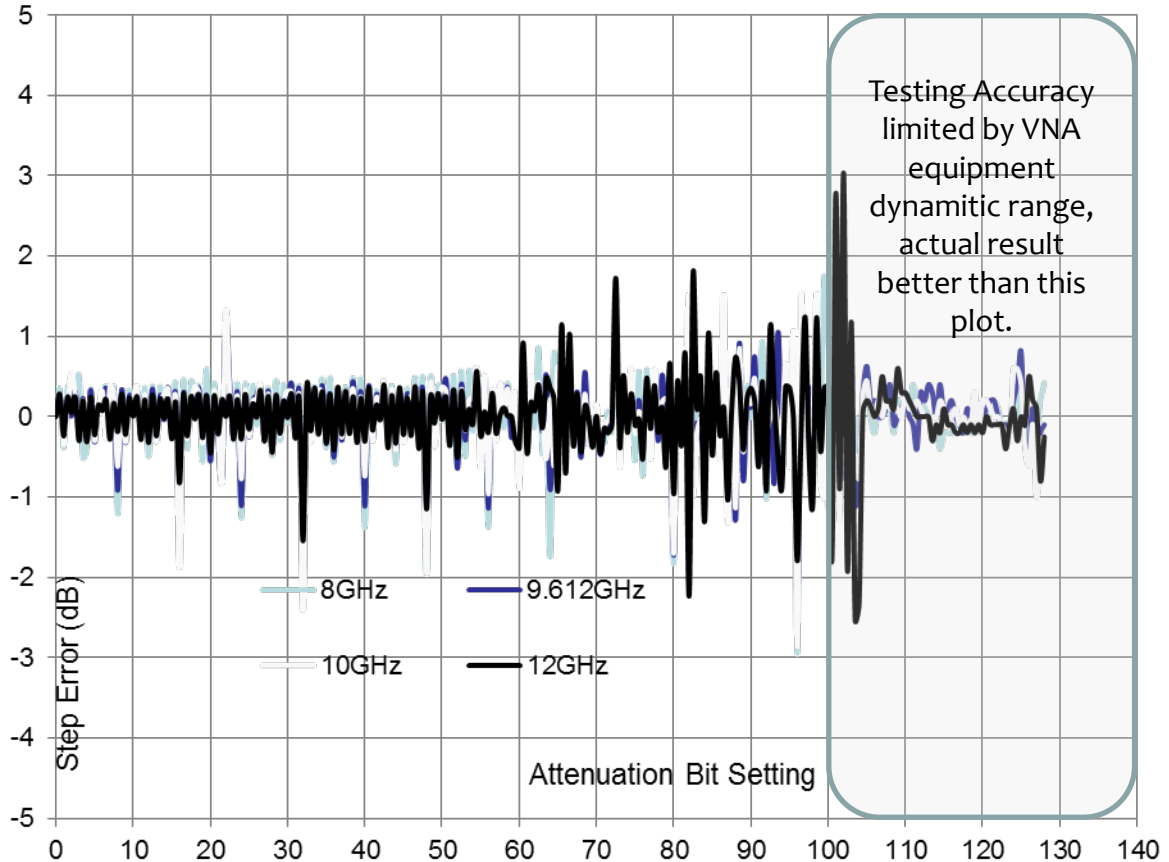
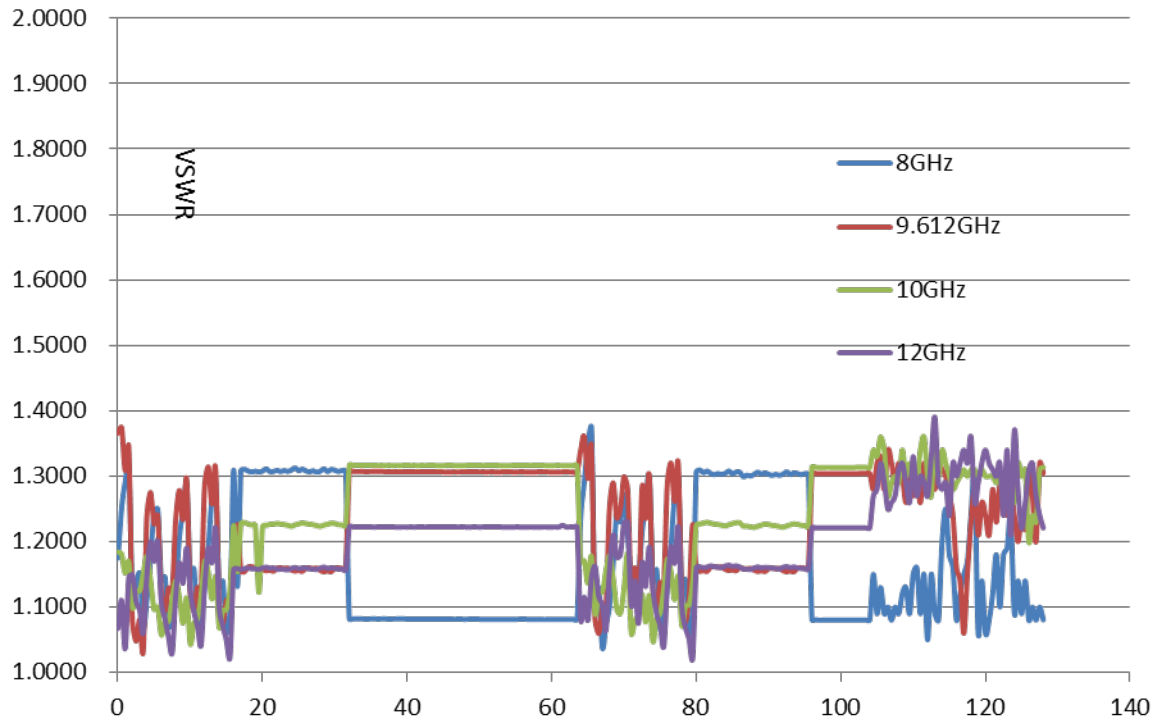


RF-LAMBDA

The power beyond expectations

RFDAT0812G8A

Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz



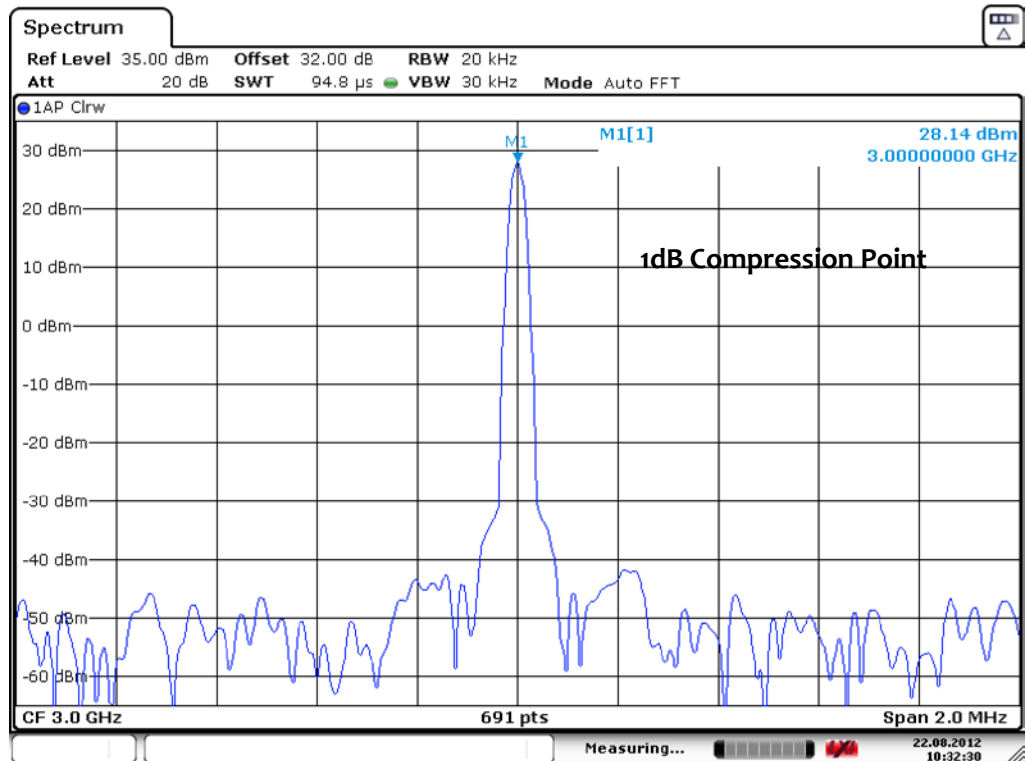
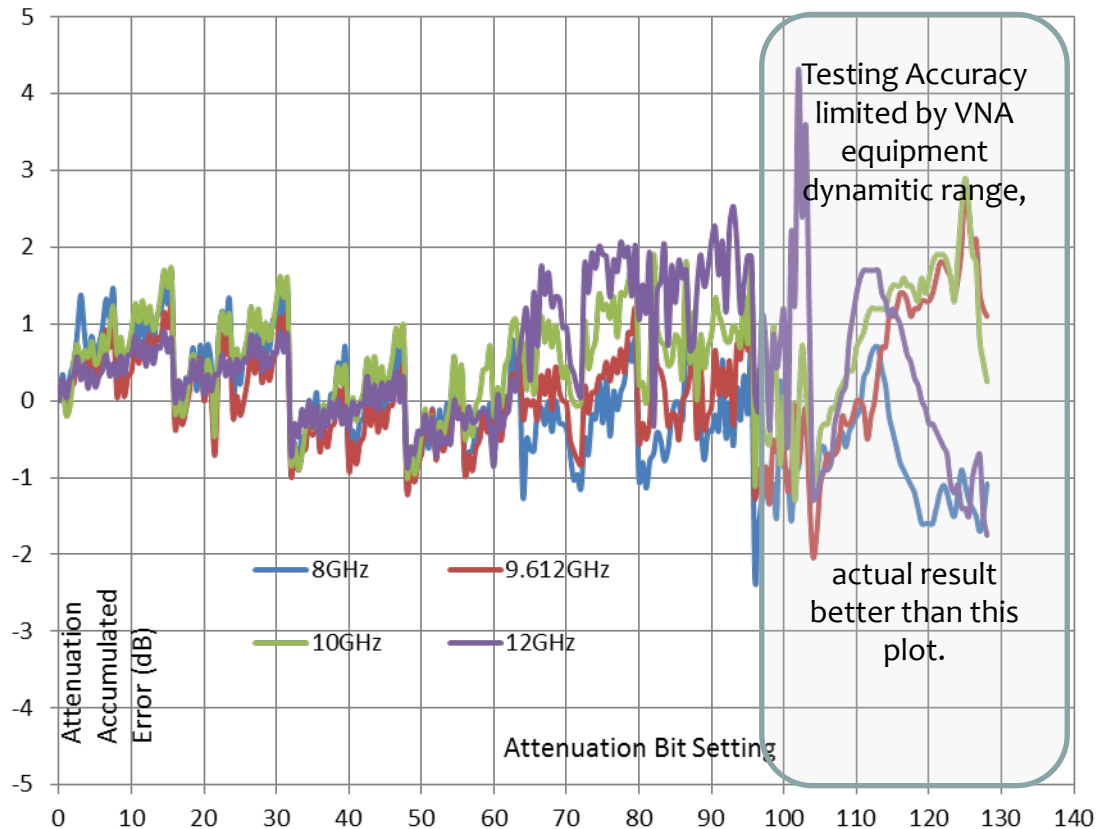


RF-LAMBDA

The power beyond expectations

RFDAT0812G8A

Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz



Date: 22.AUG.2012 10:32:29

RF-LAMBDA INC.

www.rflambda.com

Sales: sales@rflambda.com

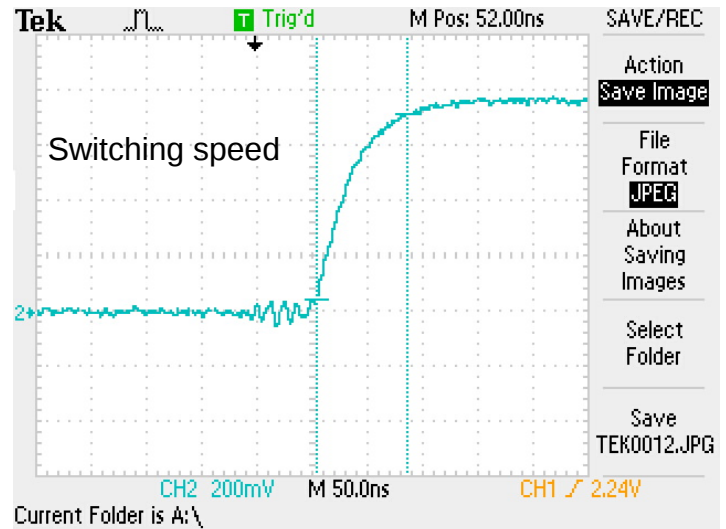
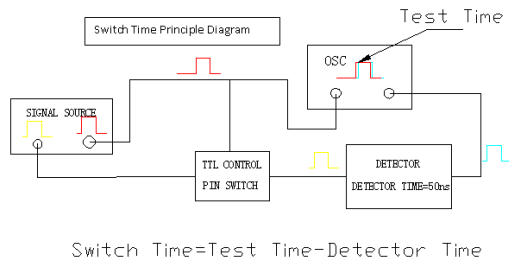
Technical : support@rflambda.com



RF-LAMBDA

The power beyond expectations

RFDAT0812G8A



Ordering Information		
Part No	ECCN	Description
RFDAT0812G8A	EAR99	8-12GHz 8 bits 128dB digital attenuator

Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Absorptive Pin Diode Attenuator 8 Bits 128dB 8.0-12GHz