



RF-LAMBDA

The power beyond expectations

RFDAT0118G6A

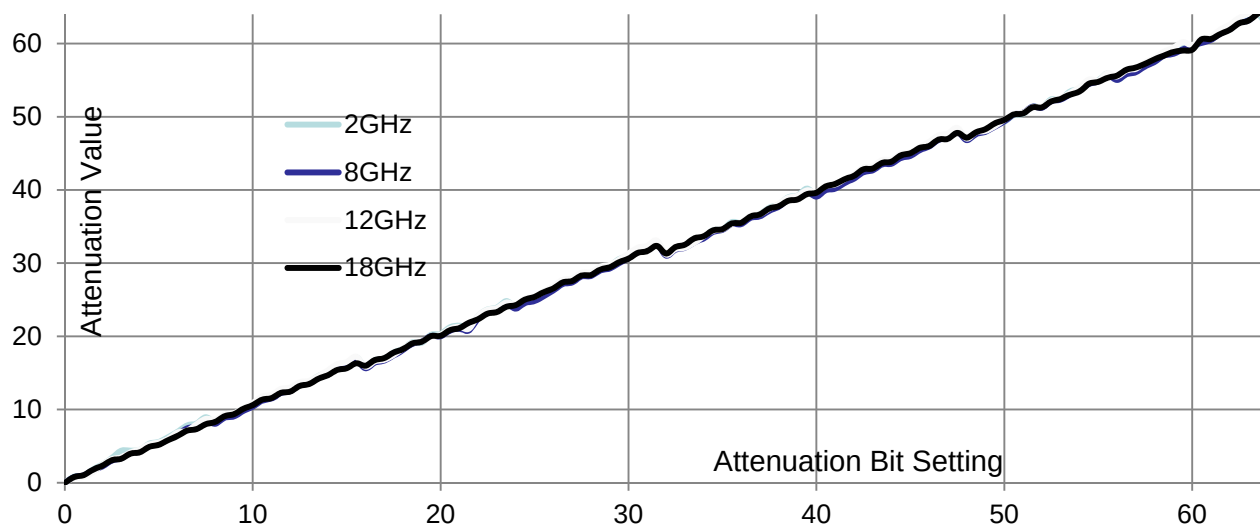
ABSORPTIVE 1-18 GHz 6 Bits 64dB PIN DIODE ATTENUATOR



- Wide Band Operation 1-18 GHz
- 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

Electrical Specifications, $T_A = +25^\circ\text{C}$, With $V_{dd} = +5\text{V}$, $V_{ss} = -5\text{V}$ & $V_{CTL} = 0/+5\text{V}$

Parameter		Frequency(GHz)	Min	Typ.	Max	Units
Insertion Loss		1~18		7	8	dB
Attenuation Range		1~18		63		dB
Attenuation Step		1~18		1		dB
Control Bits		1~18		6		
VSWR (All Atten States)		1~18		1.6	2	
Attenuation Accuracy (referenced to Loss)	0~31dB	1~18		± 1		dB
	31-63dB			± 2		
Impedance(Ohms)			50			Oh
I _{dd} /I _{ss}			100/100			mA
Weight			200			g
Operating Temperature			-45~+85			°C
Input / Output Connector			SMA-Female/SMA-Female			
Finishing			Gold Plating			
Material			Brass			



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Absolute Maximum Ratings	
Biasing	+/-5V
TTL Control Voltage	+5V/0V
Input RF power	+25dBm
Storage Temperature (C°)	-50 ~ +125

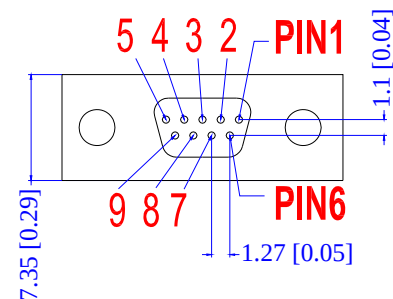
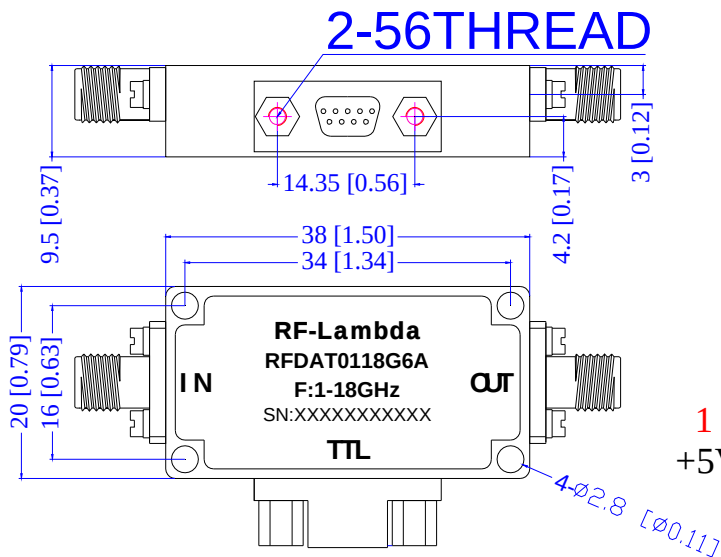
Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

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

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

Outline Drawing:

All Dimensions in mm (inches)



1 2 3 4 5 6 7 8 9
+5V -5V GND C1 C2 C3 C4 C5 C6
M I C R O - D 9

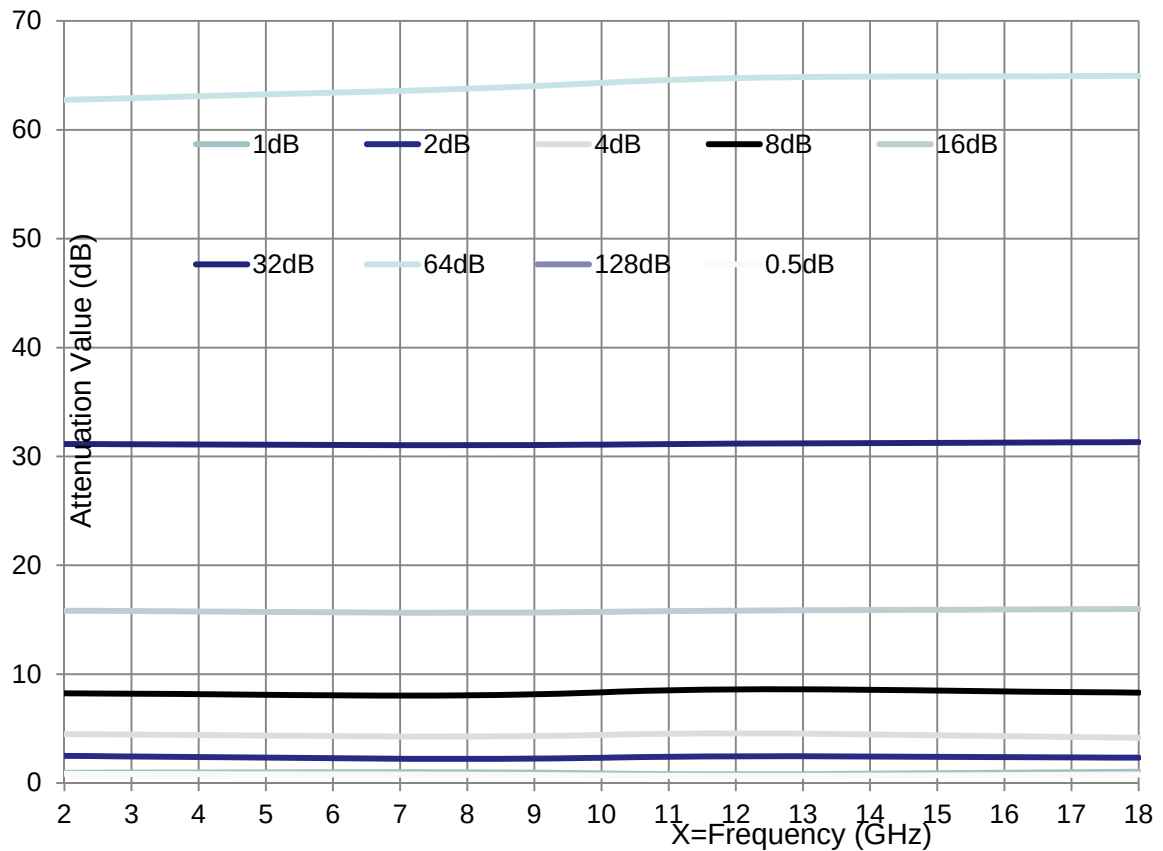
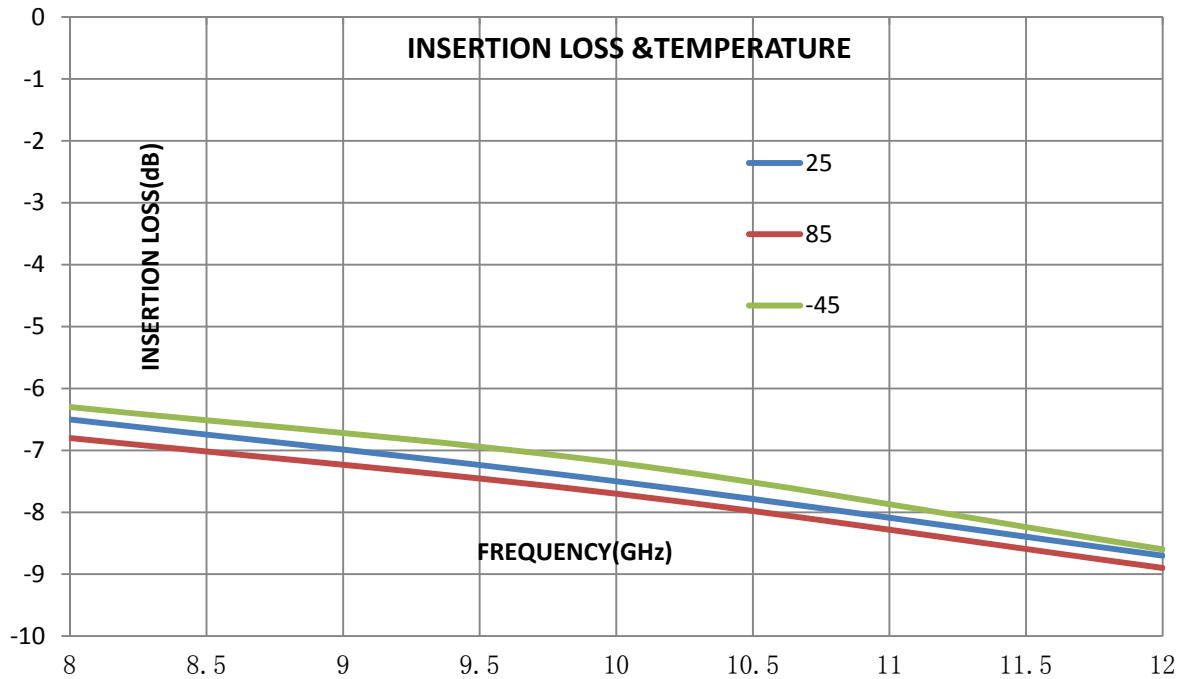


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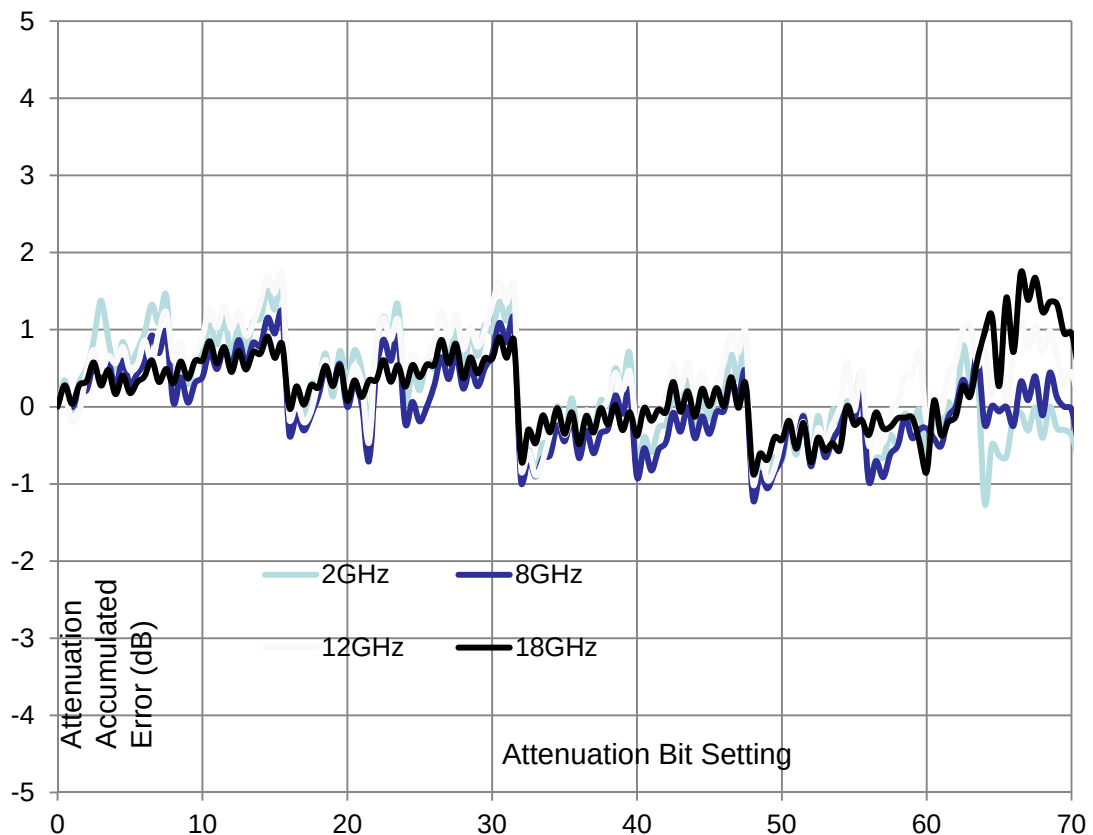
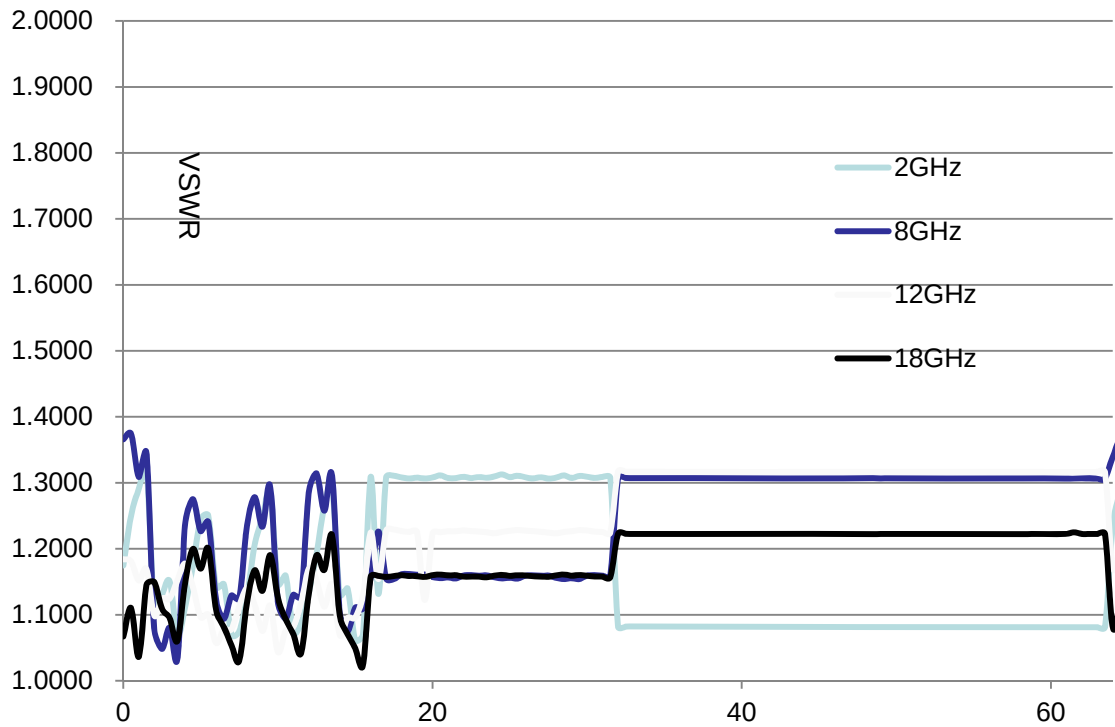


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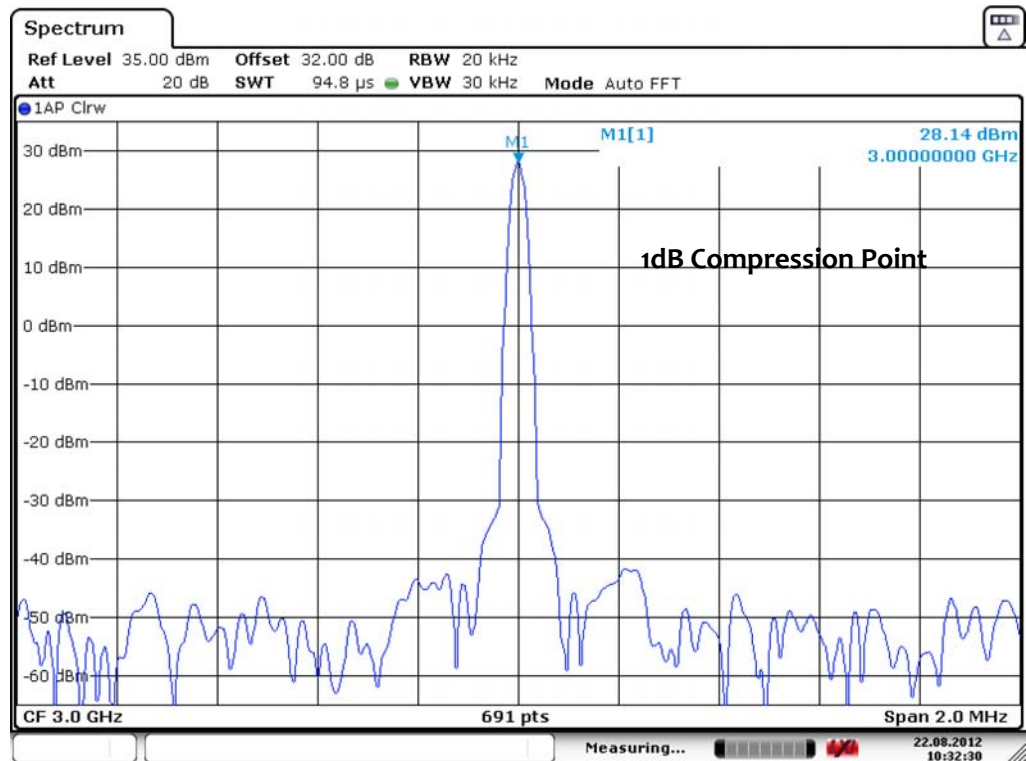
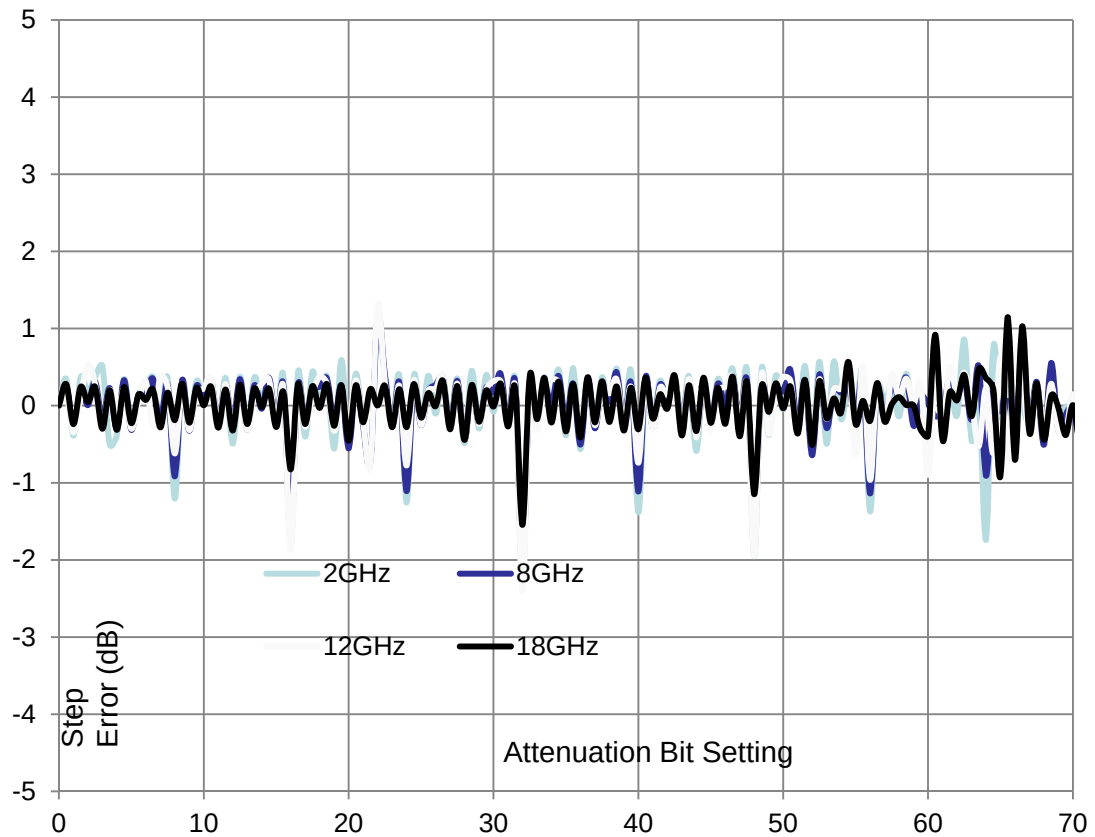


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Date: 22.AUG.2012 10:32:29

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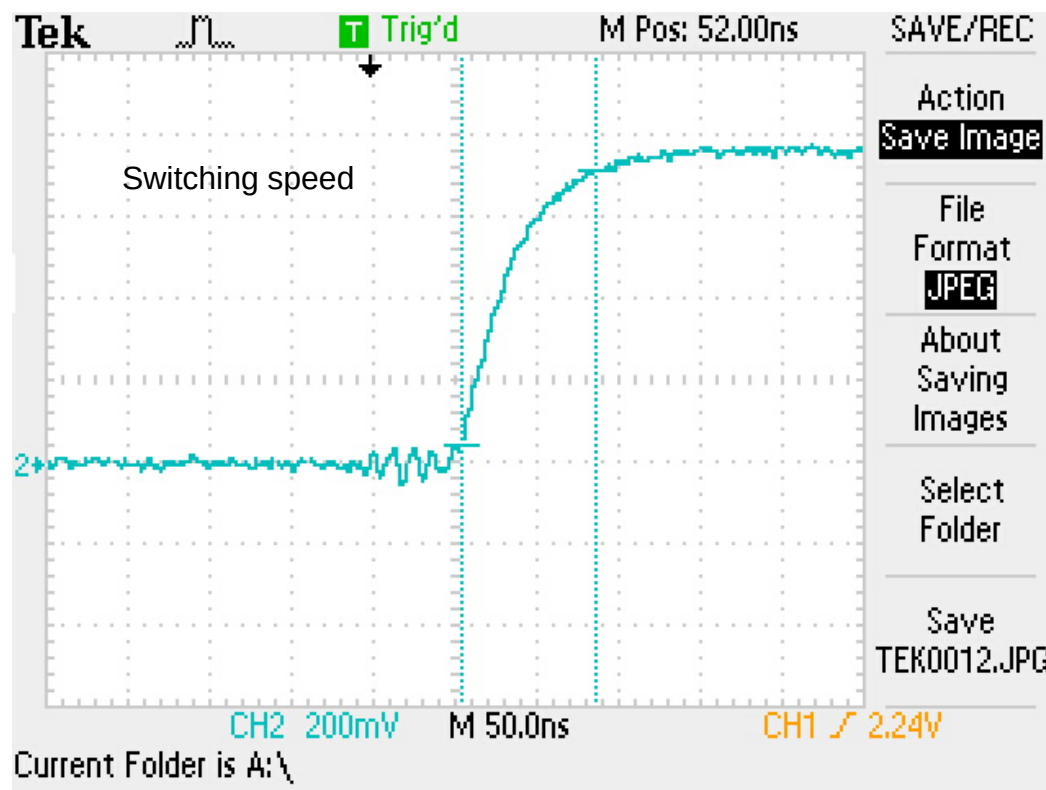
Technical : support@rflambda.com



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Ordering Information		
Part No	ECCN	Description
RFDAT0118G6A	EAR99	1-18GHz 6Bits Digital Attenuator

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