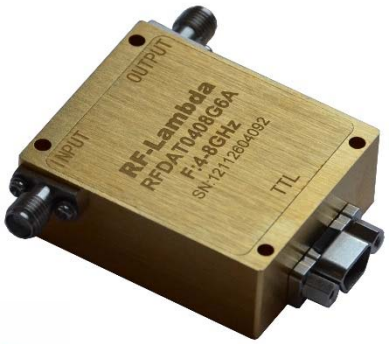
6 Bits 63dB Digital Control Attenuator 2-4GHz



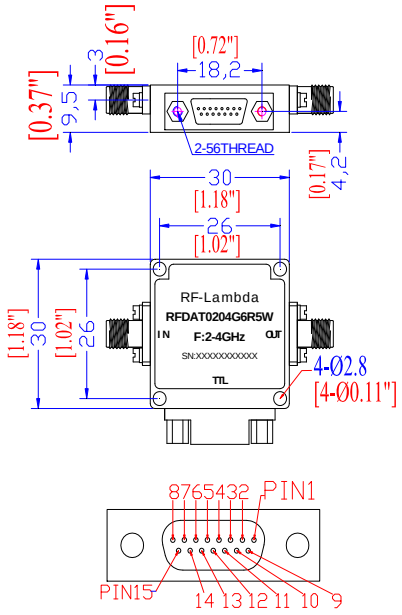
RoHS Compliant

Features

Wide Band Operation 2-4GHz
High Power Handle up to 5W upon request.
High Dynamic Range over 63dB
Low attenuation error 6 bits
Operation Temperature Range -40°C~+85°C
Customization available upon request

Electrical Parameter

Reflective Digital Control Attenuator							
Frequency (GHz)	*Insert. Loss (dB)*	*VSWR*	*Control bits*	*Step (dB)*	*Attenuation Range (dB)*	*Flatness (dB)*	*Power max. (Watts)*
2-4	*3*	*1.5*	*6*	*1*	*63*	*±5*	1W



Electrical Operation

Control DC : ±5v
Max Current: 20mA
High Digital Biasing is required for high RF power model.
Max. input 5W

Mechanical Specification

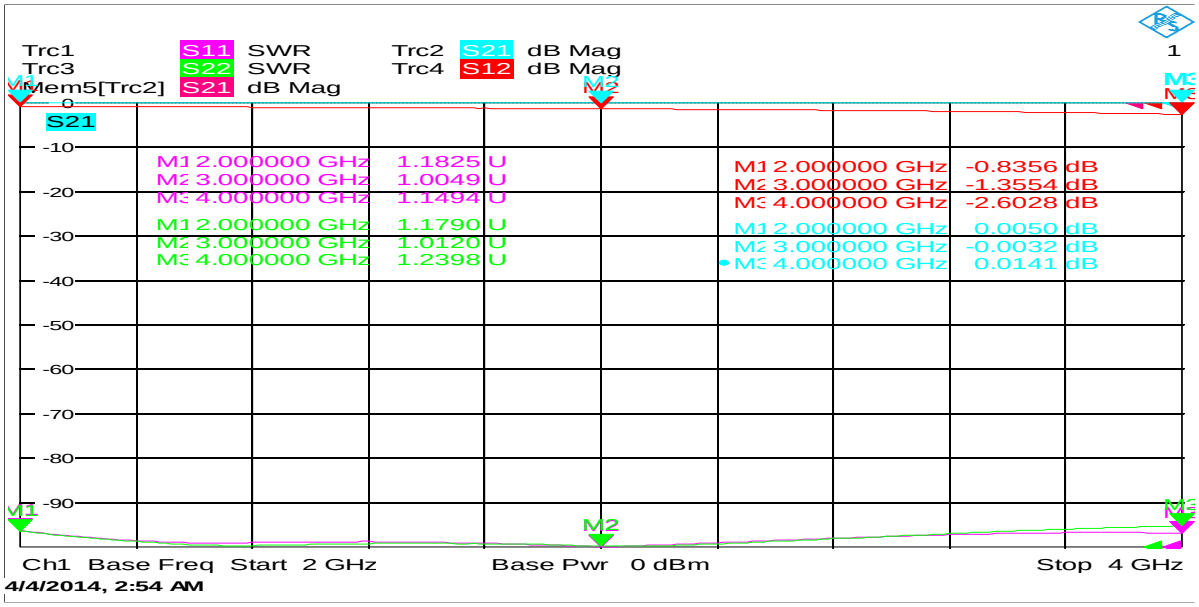
Case Style: As shown
Finishing: Gold plating for brass material
Other finishing available
Connector: SMA-F Per MIL-C-39012
Seal: Laser Seal
Control PIN: MICRO-D15
Weight: 100 grams max.

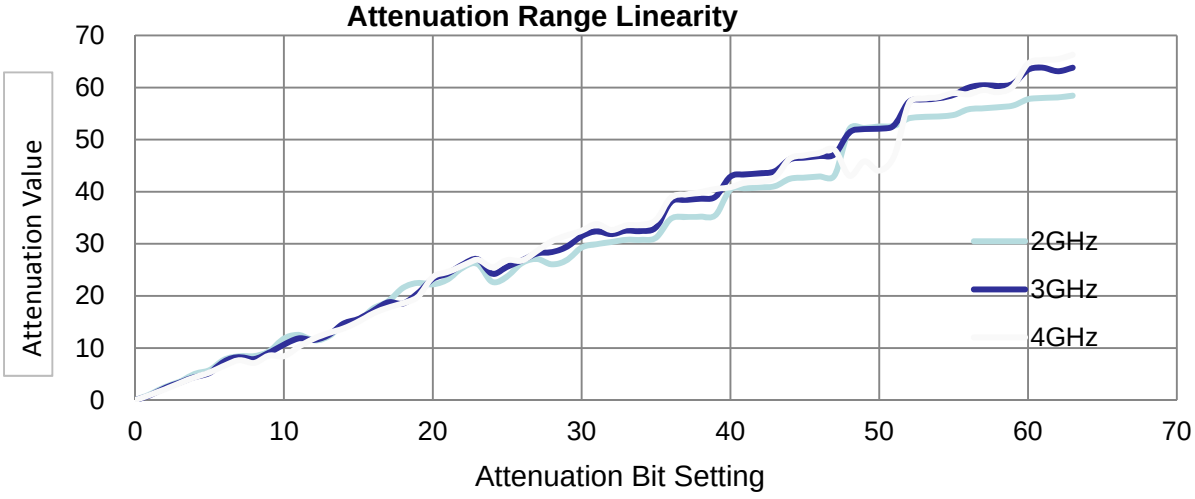
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
+5V	GND	-5V	C1	C2	C3	C4	C5	C6	NC	NC	NC	NC	NC	GND

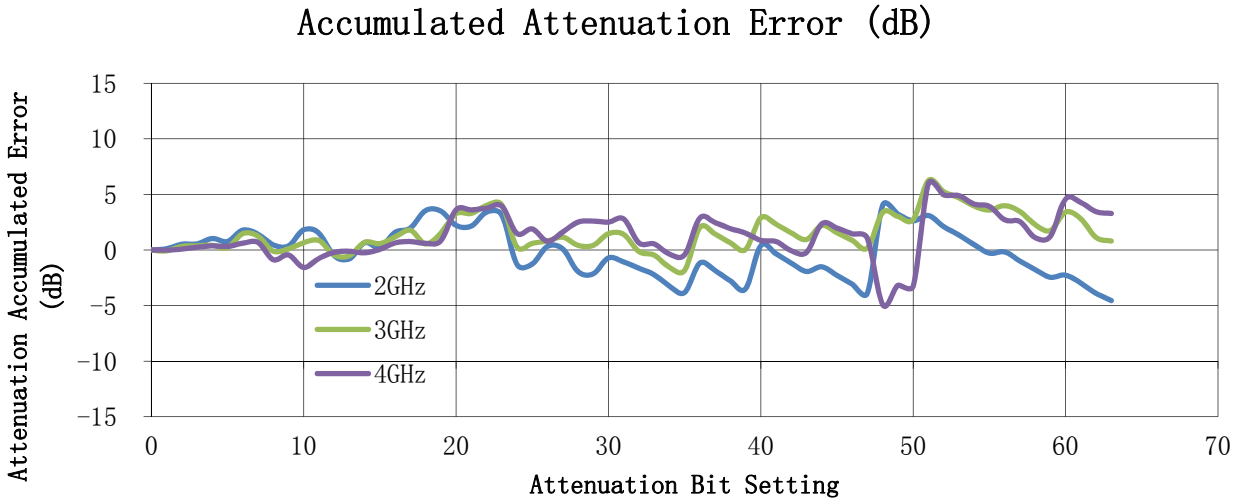
MICRO-D15

All logic "0" for Reference I.L.

Reflective Digital Control Attenuator 2-4GHz 6 Bits 63dB







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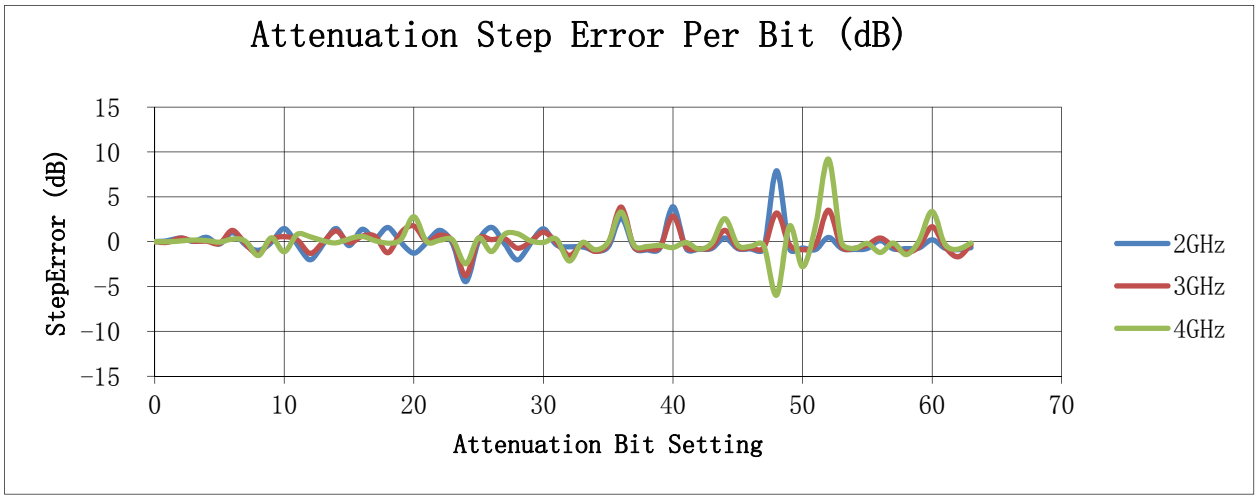
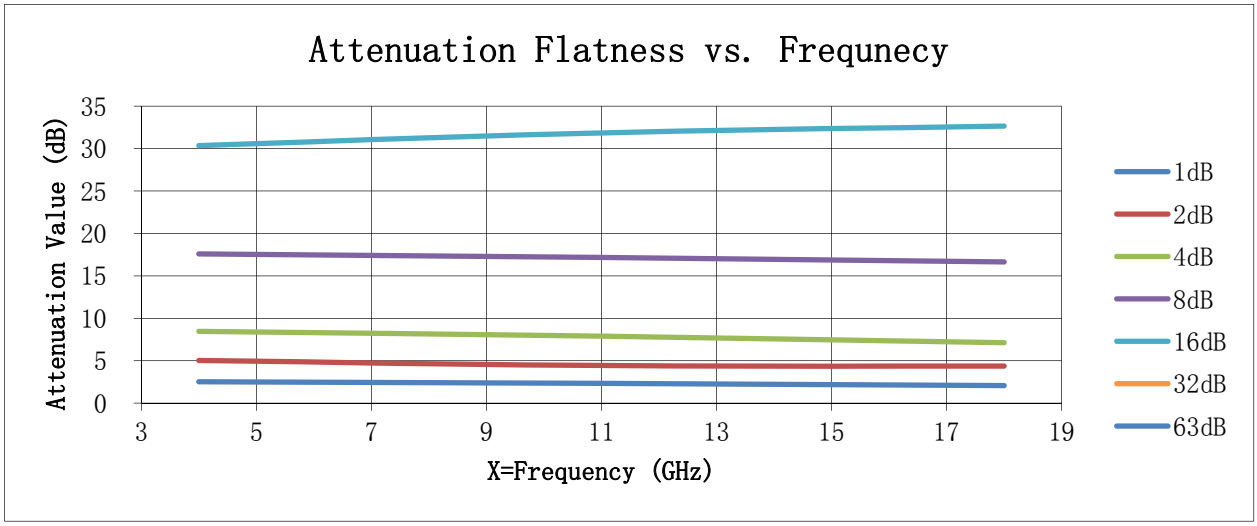
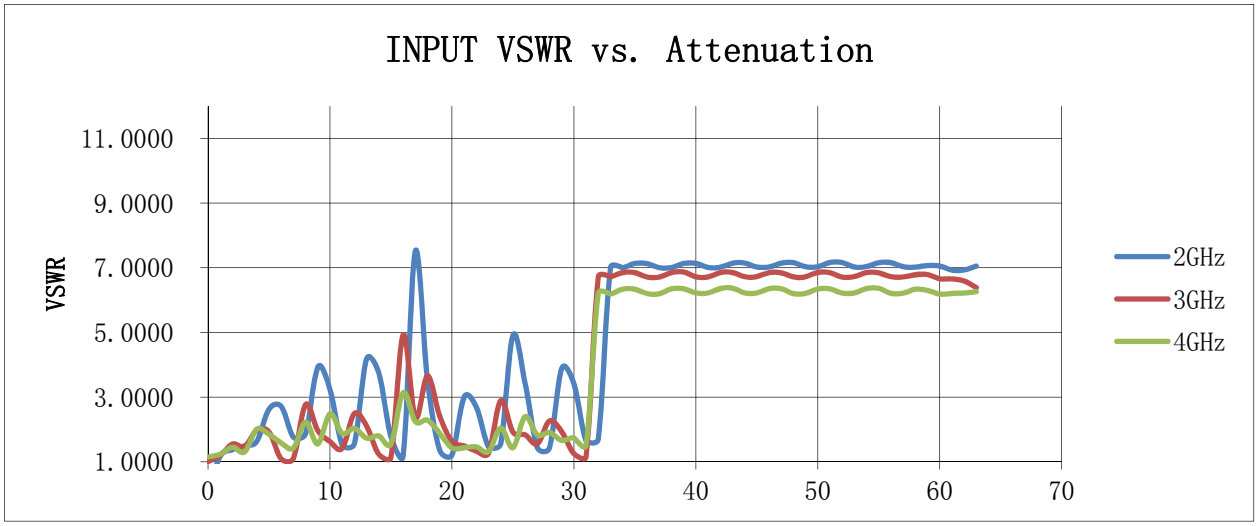
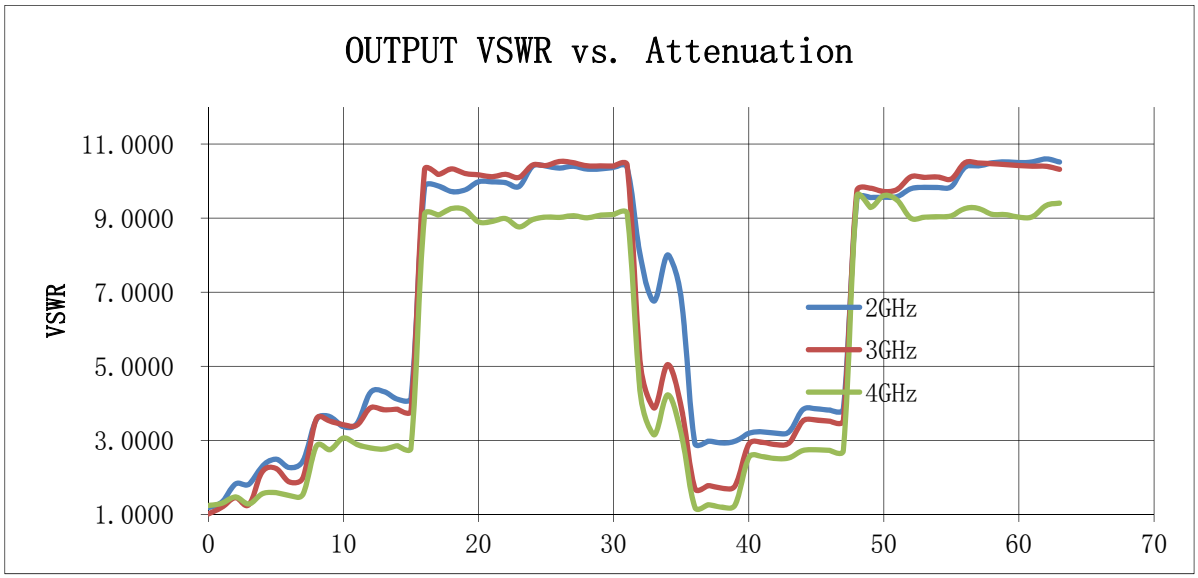

Attenuation Step Error Per Bit (dB)
StepError (dB)
15
10
5
0
-5
-10
-15
0
10
20
30
40
50
60
70
Attenuation Bit Setting
2GHz
3GHz
4GHz


Attenuation Flatness vs. Frequnecy
Attenuation Value (dB)
35
30
25
20
15
10
5
0
3
5
7
9
11
13
15
17
19
X=Frequency (GHz)
1dB
2dB
4dB
8dB
16dB
32dB
63dB


INPUT VSWR vs. Attenuation
VSWR
11.0000
9.0000
7.0000
5.0000
3.0000
1.0000
0
10
20
30
40
50
60
70
2GHz
3GHz
4GHz



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