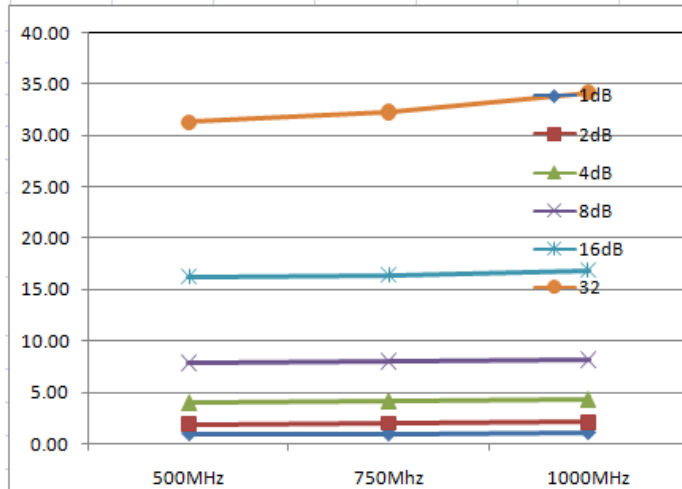


| | | |
|-----|---------------------------|----------------|
| 1.0 | Mechanical Specifications | |
| 1.1 | Basis-material | Brass |
| 1.2 | Coaxial Connector | SMA Female |
| 1.3 | External Body Finish | Nickel plating |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------------------------|--|-------|-----|-------|-------|-------|-----|-------|------|-------|----|-------|----|-------|----|-------|----|-------|----|--------|----|-----------|-----|---|---|---|---|---|-----|---|---|---|---|---|---|-----|---|---|---|---|---|---|-----|---|---|---|---|---|---|------|---|---|---|---|---|---|------|
| 3.0 | Electrical Specifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 | Frequency Range | 0.5Ghz-1.0GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | Max. VSWR | 1.50:1 max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | Power | 1-100W available Absorptive 0.2W~1.0W CW Reflective 1W~50W CW 25W CW (as shown) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4 | Insertion Loss | 1.8dB typ. 2.0dB max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | VSWR | 1.50 : 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | Switching speed | 1us | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7 | TTL Control | <table border="1"> <tr> <td>C5</td><td>C4</td><td>C3</td><td>C2</td><td>C1</td><td>Co</td><td>Atten</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>IL</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1dB</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>2dB</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>4dB</td> </tr> <tr> <td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>8dB</td> </tr> <tr> <td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>16dB</td> </tr> <tr> <td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>32dB</td> </tr> </table> | C5 | C4 | C3 | C2 | C1 | Co | Atten | 0 | 0 | 0 | 0 | 0 | 0 | IL | 0 | 0 | 0 | 0 | 0 | 1 | 1dB | 0 | 0 | 0 | 0 | 1 | 0 | 2dB | 0 | 0 | 0 | 1 | 0 | 0 | 4dB | 0 | 0 | 1 | 0 | 0 | 0 | 8dB | 0 | 1 | 0 | 0 | 0 | 0 | 16dB | 1 | 0 | 0 | 0 | 0 | 0 | 32dB |
| C5 | C4 | C3 | C2 | C1 | Co | Atten | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | IL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 1 | 1dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 1 | 0 | 2dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 1 | 0 | 0 | 4dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 1 | 0 | 0 | 0 | 8dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | 0 | 0 | 0 | 0 | 16dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 | 0 | 0 | 0 | 0 | 32dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8 | DC Control | +5V (35mA) -5V(1.5A) +38V (20mA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.9 | DB15 PIN | <table border="1"> <tr> <td>PIN 1</td><td>+5V</td> </tr> <tr> <td>PIN 2</td><td>GND</td> </tr> <tr> <td>PIN 3</td><td>-5V</td> </tr> <tr> <td>PIN 4</td><td>+38V</td> </tr> <tr> <td>PIN 5</td><td>C1</td> </tr> <tr> <td>PIN 6</td><td>C2</td> </tr> <tr> <td>PIN 7</td><td>C3</td> </tr> <tr> <td>PIN 8</td><td>C4</td> </tr> <tr> <td>PIN 9</td><td>C5</td> </tr> <tr> <td>PIN 10</td><td>C6</td> </tr> <tr> <td>PIN 11-15</td><td>GND</td> </tr> </table> | PIN 1 | +5V | PIN 2 | GND | PIN 3 | -5V | PIN 4 | +38V | PIN 5 | C1 | PIN 6 | C2 | PIN 7 | C3 | PIN 8 | C4 | PIN 9 | C5 | PIN 10 | C6 | PIN 11-15 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 1 | +5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 2 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 3 | -5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 4 | +38V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 5 | C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 6 | C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 7 | C3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 8 | C4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 9 | C5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 10 | C6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PIN 11-15 | GND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Setting | 1dB | 2dB | 4dB | 8dB | 16dB | 32dB |
|---------|------|------|------|------|-------|-------|
| 500MHz | 0.98 | 1.89 | 3.99 | 7.88 | 16.28 | 31.30 |
| 750MHz | 0.98 | 1.99 | 4.15 | 8.02 | 16.44 | 32.29 |
| 1000MHz | 1.08 | 2.10 | 4.29 | 8.20 | 16.89 | 34.20 |

ABSORPTIVE / REFLECTIVE PIN DIODE ATTENUATOR

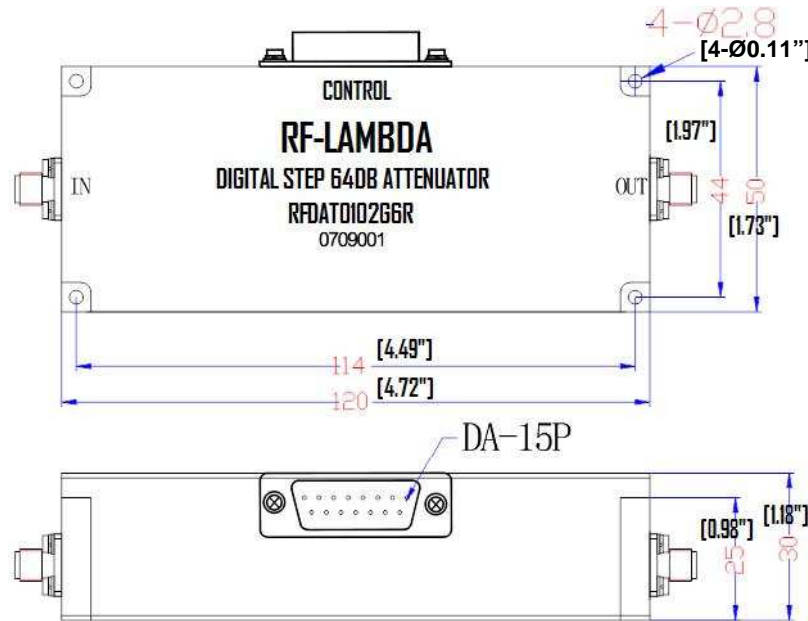
0.5-1.0GHz


-RFDAT0001G6R (Reflective)

-RFDAT0001G6A (Absorptive)



| | | |
|-----|----------------------------|--------------------------------------|
| 2.0 | Environment specifications | |
| 2.1 | Operation Temp. | -40°C~+85°C |
| 2.2 | Storage Temp. | -50°C~+125°C |
| 2.3 | Altitude | 45000 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 |



| | |
|---|------------------------|
| PAGE 1 OF 1 | DATE APR 28TH 2007 |
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|  RFDAT0001G6 PIN DIODE ATTENUATOR | RF-LAMBDA RFAC |
| www.rflambda.com | CAD MODEL REVISION 05 |
| RF-LAMBDA | ASSEMBLY REVISION VS08 |
| SIZE LT | ASSEMBLY NAME RFLVR6 |
| SHEETS 1 OF 1 | DRAWING NUMBER D01-5 |