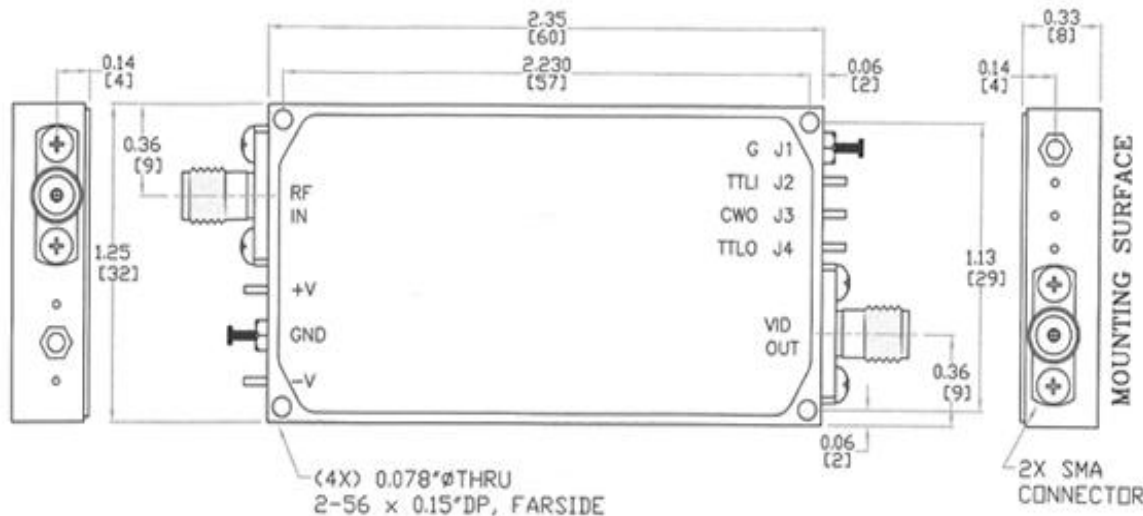


**SDL-2G18G-20-50** is a high performance, high dynamic range DLVA with smart size, which ensures itself could be used in various receiving applications. Main features as listed:

- 1). frequency range: 2G~18G
- 2). dynamic range: TTL1: -60 to 10 dBm                      TTL2: -75 to 5dBm
- 3). logging slop: 50±4mV/dB, or consult factory if customize
- 4). compact size

### Mechanical Outline:




### Specifications:

Frequency: 2 to 18GHz  
 Dynamic Range: TTL1: -60 to 10 dBm                      TTL2: -75 to 5dBm  
 Max input WO damage: +20dBm  
 Rise time: 12nsec typ                      18nsec max  
 Fall time: 15nsec typ                      30nsec max  
 Recover time: 120nsec max  
 Input VSWR: 2.0:1 max  
 Log slope: 50±4mV/dB (or consult factory if customize)  
 Log Accuracy: ±2.0dB max  
 Load Impedance: 100ohm  
 Power supply : 450mA @ +12V    140mA @ -12V  
 TSS: -78dBm max  
 Pulse Reponse: 30nsec to 100us  
 DC offset: 100±100mV  
 Connector: SMA female  
 Material: stainless steel  
 Finish: gold plating

### Environmental Ratings:

Temperature: -40°C to +80 °C Operating  
 -65 °C to +100 °C Non-Operating  
 Vibration: MIL-STD-810F, Method 514.5 Cond. B  
 Altitude: MIL-STD-202F, Method 105C Cond. B  
 Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

SDL-2G18G-20-50		
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 <b>CONNPHY</b> Microwave Inc.  www.connphy.com sales@connphy.com		

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## Control:

**J1:** Ground

**J2:** TTL input. Controls Dynamic Range externally

\*TTL1: -60 to +10 dBm

\*TTL0: -75 to -5 dBm

\*No connection or high impedance >10K ohm will be automatic.

**J3:** Analog output which determines the signalstrength of stray cw signal.


**J4:** TTL output: Determines in what dynamic range the unit is operating.

\*TTL1: -60 to +10 dBm

\*TTL0: -75 to -10 dBm

-Normally, the unit is in high sensitivity mode (-75 to -5dBm).

-At the presence of a high level stray cw signal, the unit automatically switches to (-60 to +10 dBm) within 50 nsec, unless it is

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