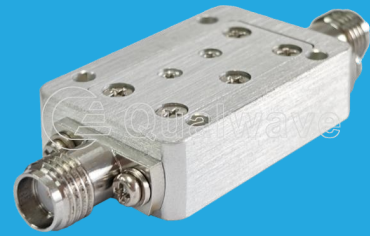


# QLA-6000-18000-38-20-L

## 6~18GHz, 38dB, 2.0dB, With limiter

Features:  
 \* Broad Band  
 \* Low Noise

Applications:  
 \* Wireless  
 \* Receiver  
 \* Laboratory Test  
 \* Radar



### Electrical

|                            |   |
|----------------------------|---|
| Frequency:                 | 6~18GHz                                     |
| Gain:                      | 38dB typ.                                   |
| Gain Flatness:             | ±1dB typ.                                   |
| Output Power (P1dB):       | 17dBm typ.                                  |
| Noise Figure:              | 2.0dB typ.                                  |
| VSWR:                      | 1.8 typ.                                    |
| Spurious:                  | -60dBc max.                                 |
| Input DC Blocking Voltage: | 100V  |
| Voltage:                   | +5V DC (Outline A)<br>+6~15V DC (Outline B) |
| Current:                   | 100mA typ.                                  |
| Impedance:                 | 50Ω   |

### Absolute Maximum Ratings\*1

|                 |                                       |
|-----------------|---------------------------------------|
| RF Input Power: | +37dBm                                |
| Voltage:        | +5.5V (Outline A)<br>+20V (Outline B) |

[1] Permanent damage may occur if any of these limits are exceeded.

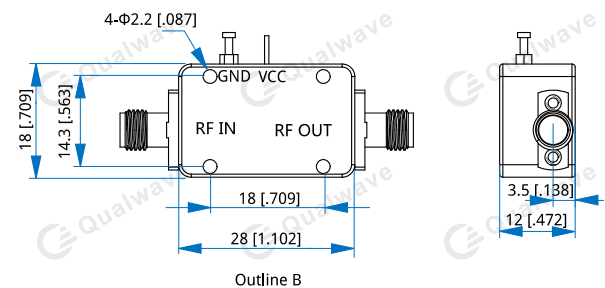
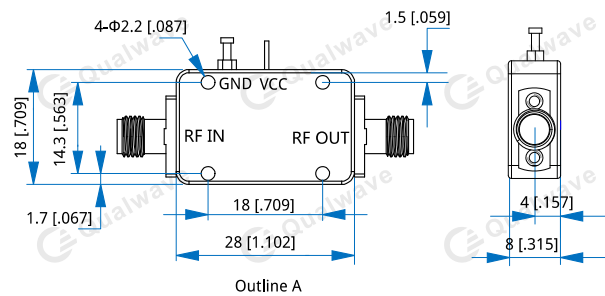
### Mechanical

|                |                        |
|----------------|------------------------|
| RF Connectors: | SMA Female (Removable) |
| Mounting:      | 4-Φ2.2mm through-hole  |

### Environmental

|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -20~+50°C |
| Non-operating Temperature: | -40~+85°C |

### Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.2mm [±0.008in]

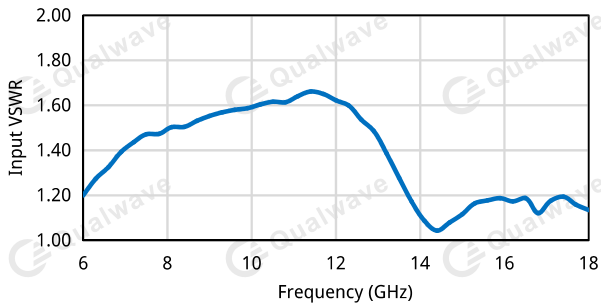
### How To Order

**QLA-6000-18000-38-20-L** - Outline A  
**QLA-6000-18000-38-20-L-1** - Outline B

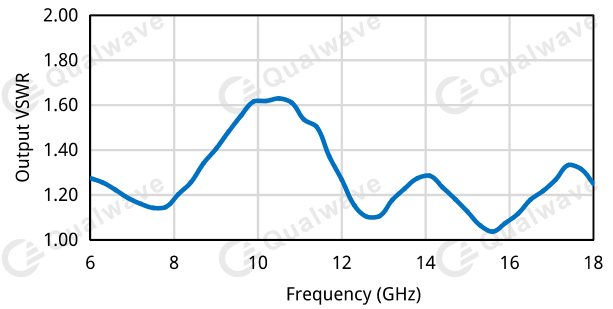
Customization is available upon request.

## Typical Performance Curves

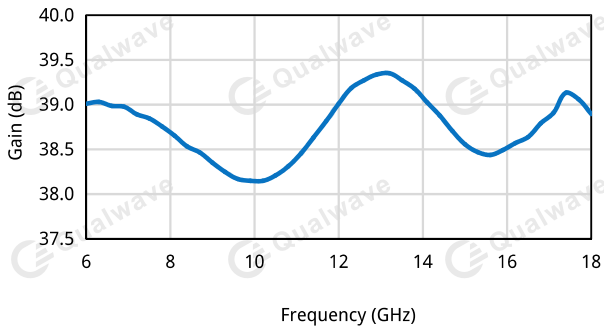
Input VSWR vs. Frequency



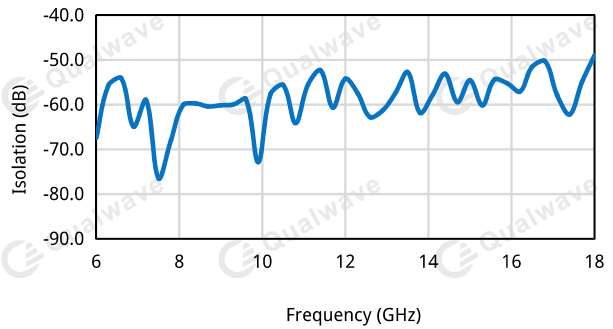
Output VSWR vs. Frequency



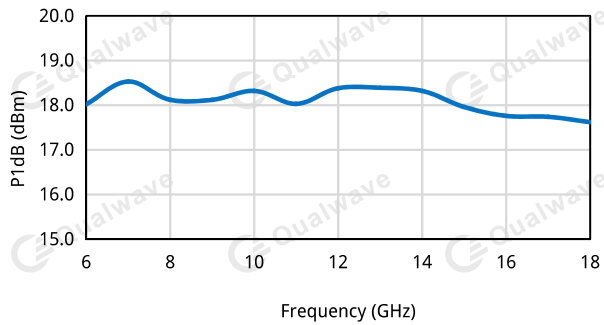
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

