

QLA-6000-12000-23-13

6~12GHz, 23dB, 1.3dB

Features:
 * Broadband
 * Low Noise

Applications:
 * Wireless
 * Receiver
 * Laboratory Test
 * Radar



Electrical

| | |
|----------------------|---|
| Frequency: | 6~12GHz |
| Small Signal Gain: | 23dB typ. |
| Gain Flatness: | ±1dB typ. |
| Output Power (P1dB): | 14dBm typ. |
| Noise Figure: | 1.3dB typ. |
| Spurious: | -60dBc max. |
| Input VSWR: | 1.4 typ. |
| Output VSWR: | 1.45 typ. |
| Voltage: | +5V DC (Outline A) +6~15V DC (Outline B) |
| Current: | 200mA typ. |
| Impedance: | 50Ω |

Absolute Maximum Ratings*1

| | |
|-----------------|-------------------------------------|
| RF Input Power: | +20dBm |
| Voltage: | +7V (Outline A) +20V (Outline B) |

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

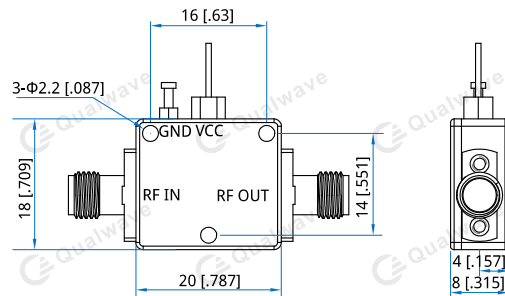
Mechanical

RF Connectors: SMA Female

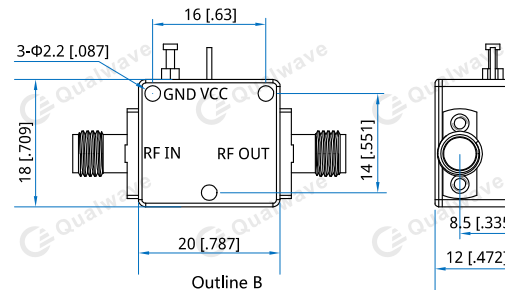
Environmental

| | |
|----------------------------|------------|
| Operating Temperature: | -45~+85°C |
| Non-operating Temperature: | -55~+125°C |

Outline Drawings



Outline A



Outline B

Unit: mm [in]
 Tolerance: ±0.5mm [±0.02in]

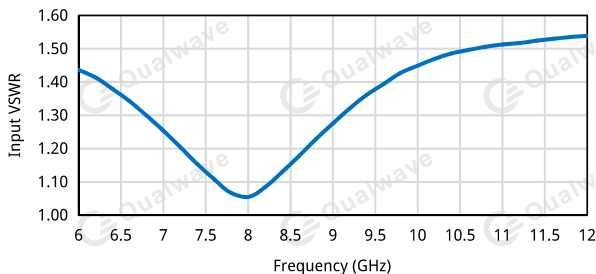
How To Order

QLA-6000-12000-23-13 - Outline A
 QLA-6000-12000-23-13-1 - Outline B

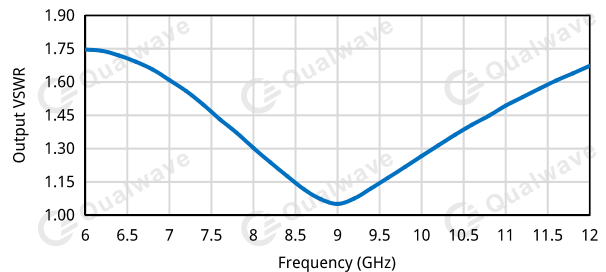
Customization is available upon request.

Typical Performance Curves

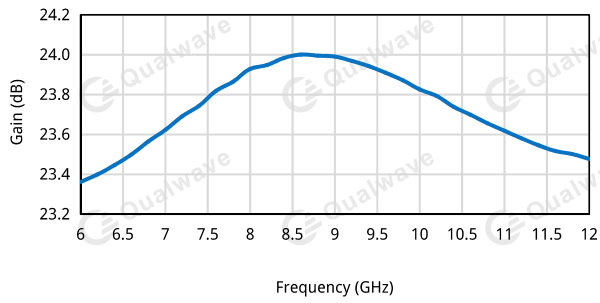
Input VSWR vs. Frequency



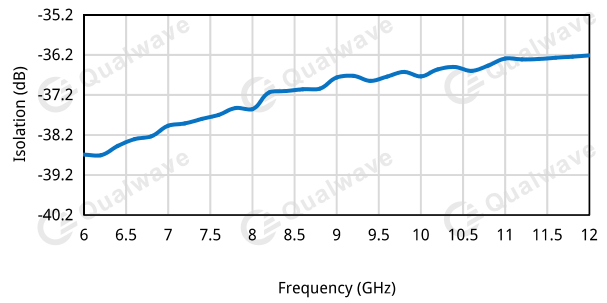
Output VSWR vs. Frequency



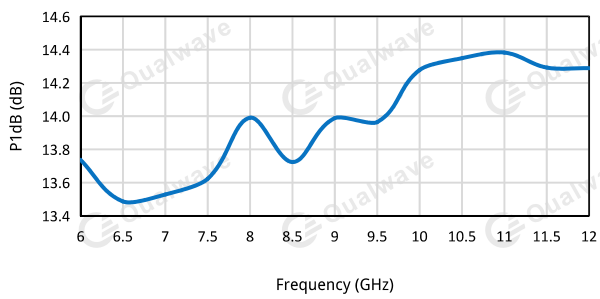
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

