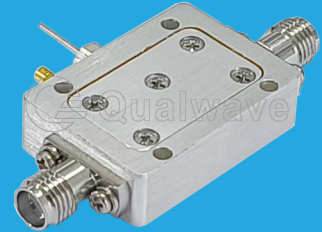


QLA-100-12000-30-30

0.1~12GHz, 30dB, 3.0dB

Features:
 * Broadband
 * Low Noise

Applications:
 * Wireless
 * Receiver
 * Laboratory Test
 * Radar



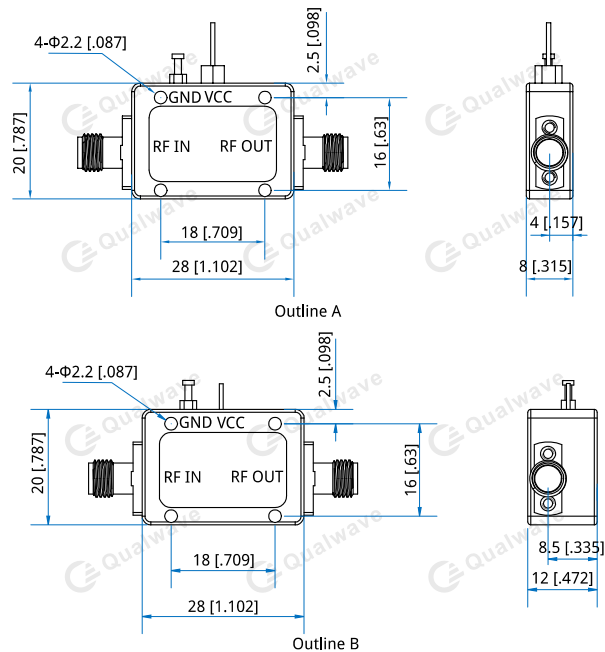
Electrical

| | |
|----------------------|---|
| Frequency: | 0.1~12GHz |
| Gain: | 30dB typ. |
| Gain Flatness: | ±1.5dB typ. |
| Output Power (P1dB): | 15dBm typ. |
| Noise Figure: | 3.0dB typ. |
| Spurious: | -60dBc max. |
| VSWR: | 1.8 typ. |
| Voltage: | +5V DC (Outline A) +6~15V DC (Outline B) |
| Current: | 200mA typ. |
| Impedance: | 50Ω |

Environmental

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

Outline Drawings



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

How To Order

QLA-100-12000-30-30 - Outline A

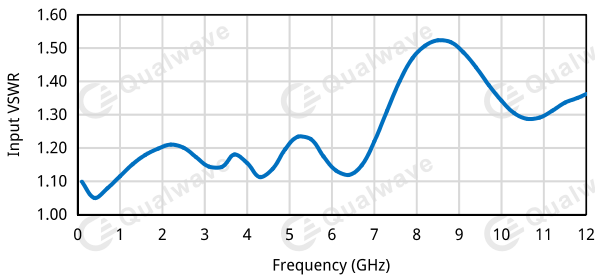
QLA-100-12000-30-30-1 - Outline B

Customization is available upon request.

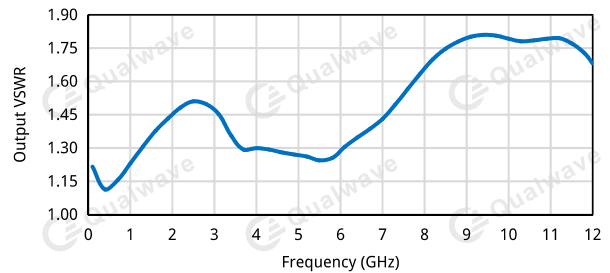
Unit: mm [in]
 Tolerance: ±0.5mm [±0.02in]

Typical Performance Curves

Input VSWR vs. Frequency

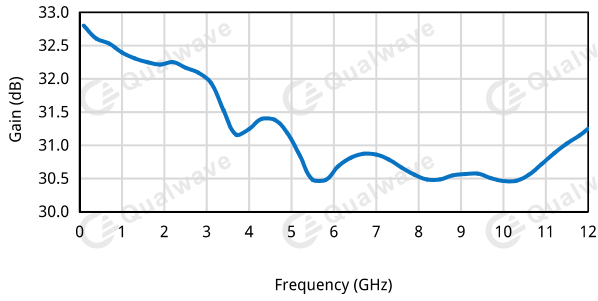


Output VSWR vs. Frequency

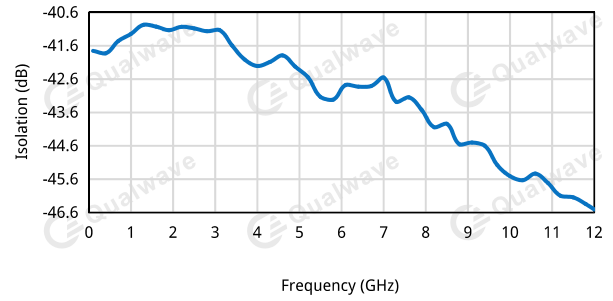


Low Noise Amplifier

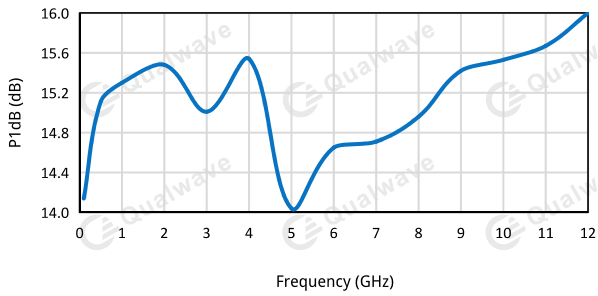
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

