

QLA-6000-18000-24-15

6~18GHz, 24dB, 1.5dB

Features:

- * Broadband
- * Low Noise

Applications:

- * Wireless
- * Receiver
- * Laboratory Test
- * Radar



Electrical

Frequency:	6~18GHz
Small Signal Gain:	24dB typ.
Gain Flatness:	±1.5dB typ.
Output Power (P1dB):	14dBm typ.
Noise Figure:	1.5dB 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.

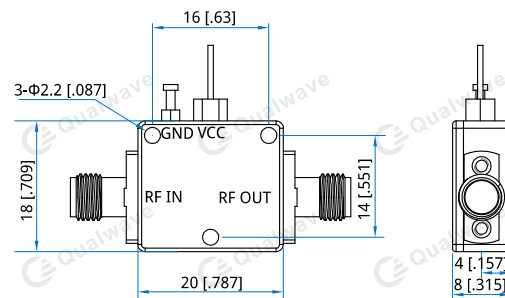
Mechanical

RF Connectors: SMA Female

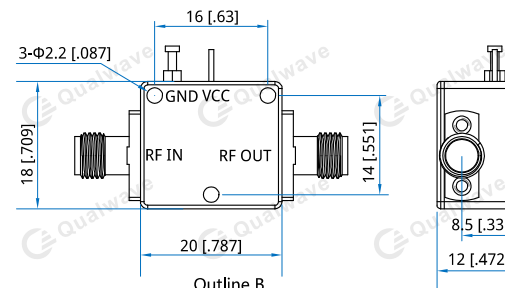
Environmental

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

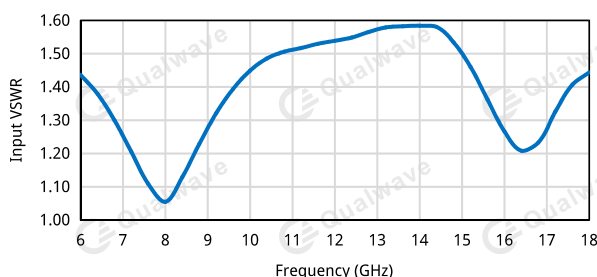
[QLA-6000-18000-24-15](#) - Outline A

[QLA-6000-18000-24-15-1](#) - Outline B

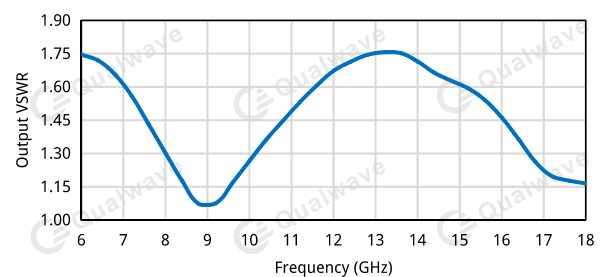
Customization is available upon request.

Typical Performance Curves

Input VSWR vs. Frequency

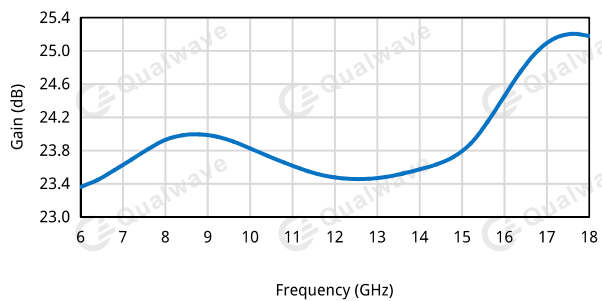


Output VSWR vs. Frequency

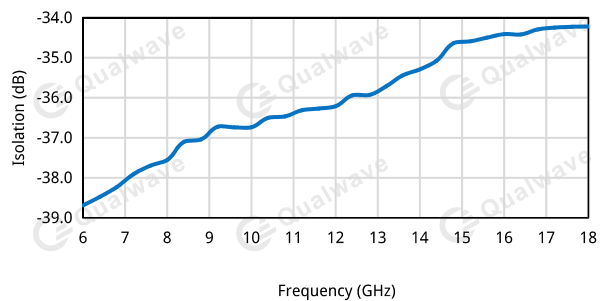


Low Noise Amplifier

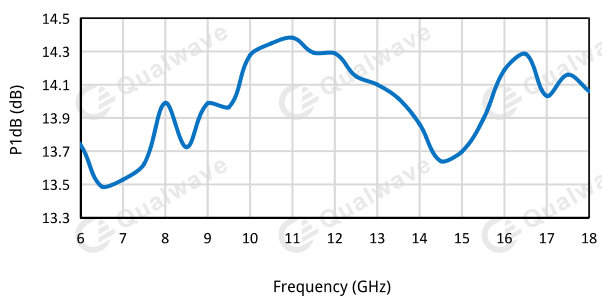
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

