

# QLA-100-20000-40-20

0.1~20GHz, 40dB, 2.0dB

Features:  
 \* Broadband  
 \* Low Noise

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



## Electrical

Frequency:	0.1~20GHz
Gain:	40dB min. 44dB typ.
Gain Flatness:	±1dB typ.
Output Power (P1dB):	10dBm typ.
Noise Figure:	2.0dB typ.
Spurious:	-60dBc max.
Reverse Isolation:	-40dB typ.
VSWR:	2 typ.
Voltage:	+5V DC (Outline A) +6~12V DC (Outline B)
Current:	200mA typ.
Impedance:	50Ω

## Absolute Maximum Ratings\*1

RF Input Power:	+17dBm
Voltage:	+6V (Outline A) +20V (Outline B)

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

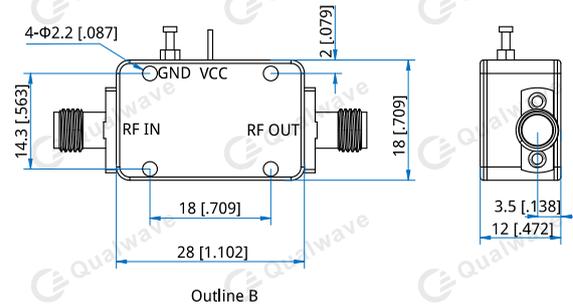
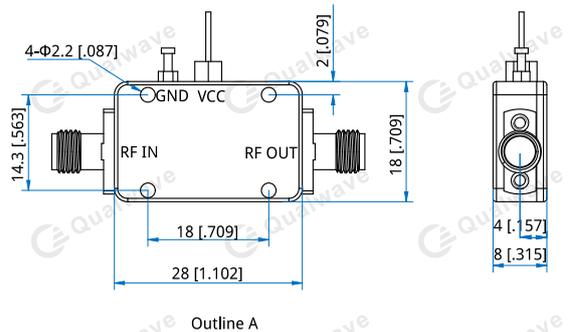
## Mechanical

RF Connectors: SMA Female

## Environmental

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

## Outline Drawings



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

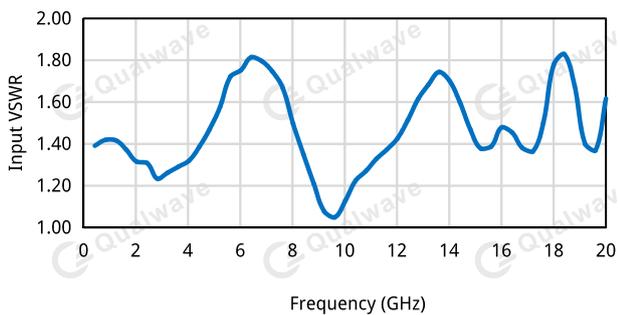
## How To Order

- QLA-100-20000-40-20 - Outline A
- QLA-100-20000-40-20-1 - Outline B

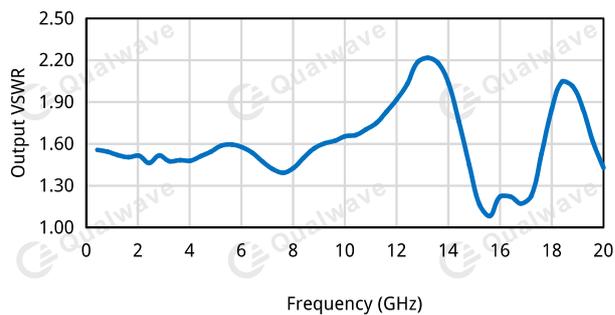
Customization is available upon request.

## Typical Performance Curves

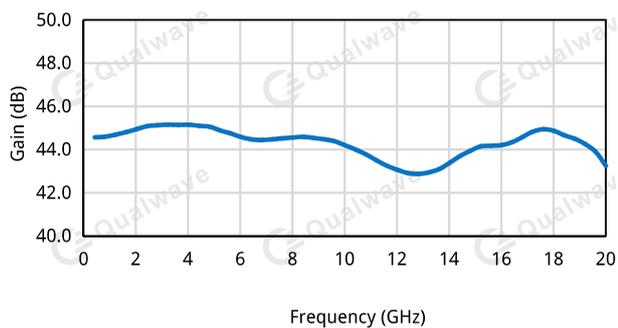
Input VSWR vs. Frequency



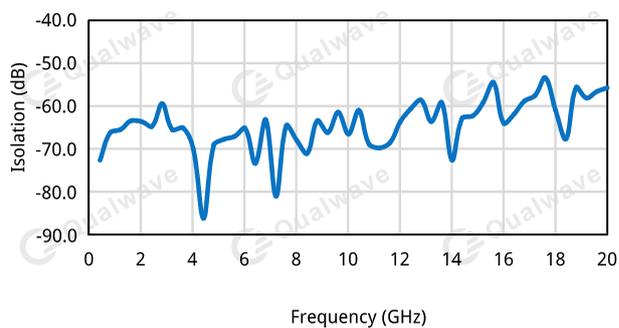
Output VSWR vs. Frequency



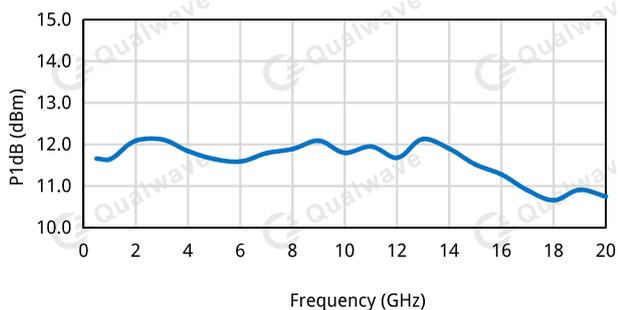
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

