

## QLA-8000-12000-23-13

8~12GHz, 23dB, 1.3dB

Features:  
 \* Broadband  
 \* Low Noise

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



### Electrical

Frequency:	8~12GHz
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.

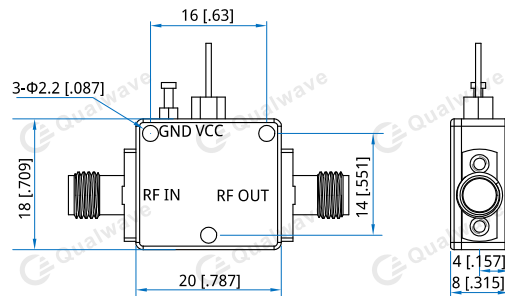
### Mechanical

RF Connectors: SMA Female

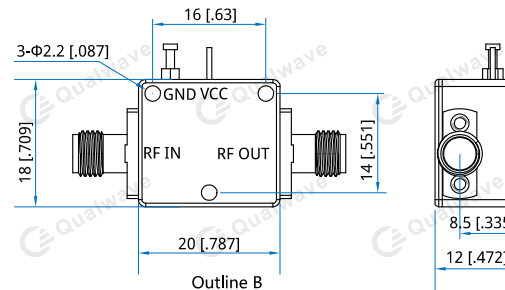
### Environmental

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]

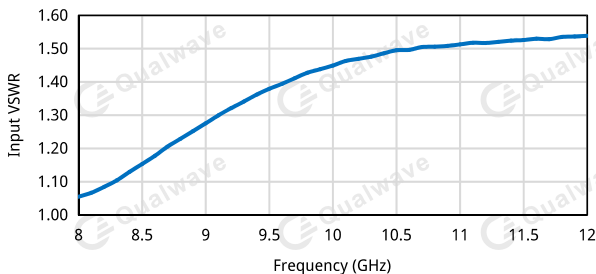
### How To Order

QLA-8000-12000-23-13 - Outline A  
 QLA-8000-12000-23-13-1 - Outline B

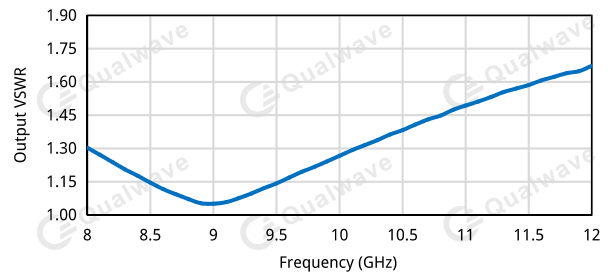
Customization is available upon request.

### Typical Performance Curves

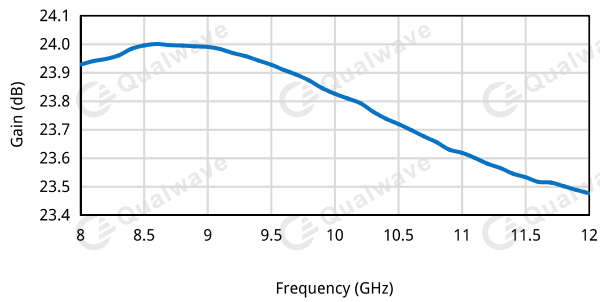
Input VSWR vs. Frequency



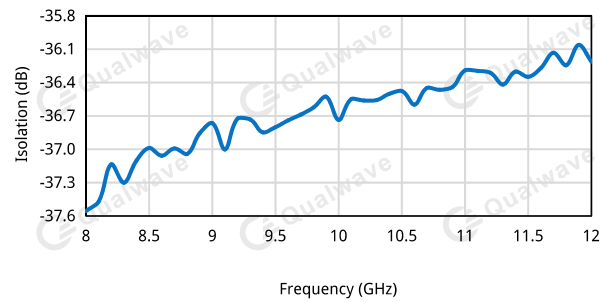
Output VSWR vs. Frequency



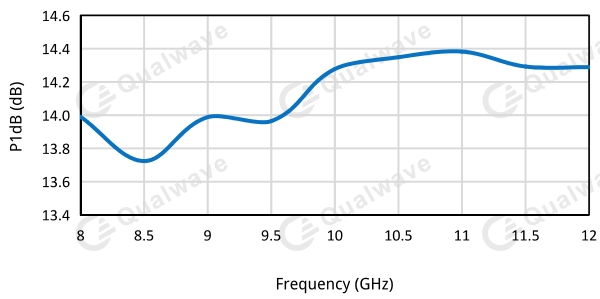
Gain vs. Frequency



Isolation vs. Frequency



P1dB vs. Frequency



Noise Figure vs. Frequency

