

# QDA-100-50000-31.5-0.5

0.1~50GHz, 31.5dB, 0.5dB

**Features:**  
 \* Broadband  
 \* High Dynamic Range

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

## Electrical

Frequency:	0.1~50GHz
Insertion Loss:	11dB max.
Attenuation Flatness:	±1dB typ. @0.5~16dB ±2dB typ. @17.5~31.5dB
Step:	0.5dB min.
Attenuation Range:	0~31.5dB
Attenuation Accuracy:	±1dB typ. @0.5~16dB ±2dB typ. @17.5~31.5dB
VSWR:	2.5 max.
Voltage/Current:	-5V @10mA typ.
Input Power:	+25dBm max.

## Mechanical

Size*1:	32*20*12.7mm 1.26*0.787*0.5in
RF Connectors:	2.4mm Female
Switching Time:	20ns typ.
Power Supply & Control Interface Connectors:	J30J-15ZKP
Mounting:	4-Φ2.7mm through-hole
Logic Input:	On: 1(5V) Off: 0(0V)

[1] Exclude connectors.

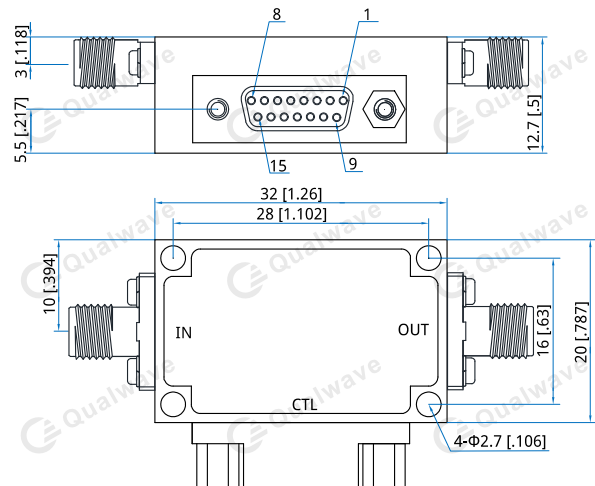
## Pin Numbering

Pin	Function	Pin	Function
1	-5V	7	C4:-4dB
2	GND	8	C5:-8dB
3	NC	9	C6:-16dB
4	C1:-0.5dB	10	NC
5	C2:-1dB	11~15	NC
6	C3:-2dB		

## Environmental

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

## Outline Drawings



Unit: mm [in]  
 Tolerance: ±0.2mm [±0.008in]

## Logic Table

State	C1	C2	C3	C4	C5	C6	Attenuation State
-	0	0	0	0	0	0	Reference IL
1	1	0	0	0	0	0	0.5dB
2	0	1	0	0	0	0	1dB
3	0	0	1	0	0	0	2dB
4	0	0	0	1	0	0	4dB
5	0	0	0	0	1	0	8dB
6	0	0	0	0	0	1	16dB
7	1	1	1	1	1	1	31.5dB

## How To Order

**QDA-100-50000-31.5-0.5**

Customization is available upon request.