

# QDA-18000-50000-31.5-0.5

## 18~50GHz, 31.5dB, 0.5dB

Features:  
 \* Broadband  
 \* High Dynamic Range

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

### Electrical

Frequency:	18~50GHz
Insertion Loss:	11dB max.
VSWR:	2.5 max.
Attenuation Flatness:	±1dB typ. @0.5-16dB ±2dB typ. @17.5-31.5dB
Control Bits:	6
Step:	0.5dB min.
Attenuation Range:	0~31.5dB
Attenuation Accuracy:	±1dB typ. @0.5-16dB ±2dB typ. @17.5-31.5dB
Voltage/Current:	-5V @10mA typ.
Input Power:	+25dBm max.

### Mechanical

Size <sup>*1</sup> :	32*20*12.7mm 1.26*0.787*0.5in
Weight:	25g typ.
Switching Time:	20ns typ.
RF Connectors:	2.4mm Female
Power Supply & Control Interface Connectors:	J30J-15ZKP
Mounting:	4-Φ2.7mm through-hole
Logic Input:	On: 1( +5V) Off: 0( 0V)

[1] Exclude connectors.

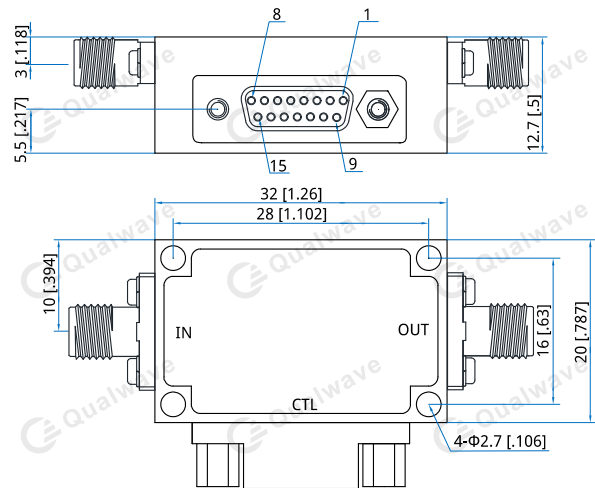
### Pin Numbering

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

### 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
-	0	0	0	0	0	0	State 31.5dB 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-18000-50000-31.5-0.5**

Customization is available upon request.