

## QDA-0-40000-31.5-0.5

DC~40GHz, 31.5dB, 0.5dB

Features:  
 \* Broadband  
 \* High Dynamic Range

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



### Electrical

Frequency:	DC~40GHz
Insertion Loss:	8dB typ.
Step:	0.5dB
Attenuation Range:	0~31.5dB
Attenuation Accuracy:	±1dB typ. @0.5~16dB ±2dB typ. @17.5~31.5dB
VSWR:	1.8 typ.
Voltage/Current:	-5V @15mA typ.

### Absolute Maximum Ratings\*1

Voltage:	-6V max.
Input Power:	+27dBm max.

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

### Mechanical

Size*2:	26*26*12mm 1.024*1.024*0.472in
RF Connectors:	2.92mm Female
Switching Time:	50ns max.
Power Supply & Control	30J-9ZKP
Interface Connectors:	
Mounting:	4-Φ2.8mm through-hole
Logic Input:	On: 1( +3~+5V) Off: 0( 0~+0.5V)

[2] Exclude connectors.

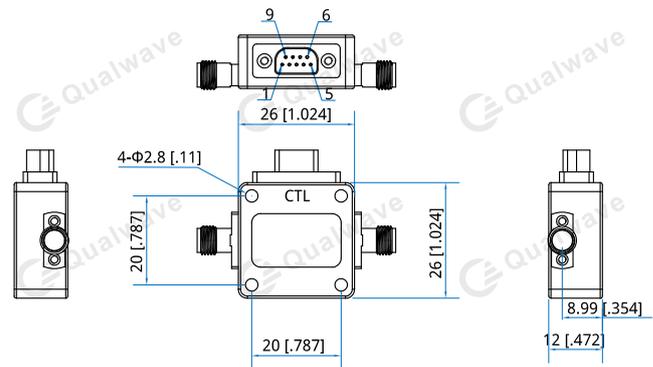
### Pin Numbering

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

### 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	VEE	Attenuation State
-	0	0	0	0	0	0	-5V	Reference IL
1	1	0	0	0	0	0	-5V	0.5dB
2	0	1	0	0	0	0	-5V	1dB
3	0	0	1	0	0	0	-5V	2dB
4	0	0	0	1	0	0	-5V	4dB
5	0	0	0	0	1	0	-5V	8dB
6	0	0	0	0	0	1	-5V	16dB
7	1	1	1	1	1	1	-5V	31.5dB

### How To Order

[QDA-0-40000-31.5-0.5](#)

Customization is available upon request.

## Typical Performance Curves

