

QDA-1000-2000-31.5-0.5

1~2GHz, 31.5dB, 0.5dB

Features:
 * Broadband
 * High Dynamic Range

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

| | |
|-----------------------|---|
| Frequency: | 1~2GHz |
| Insertion Loss: | 3.6dB max. |
| Attenuation Flatness: | ±0.4dB typ. @0.5~16dB ±0.5dB typ. @17.5~31.5dB |
| Step: | 0.5dB |
| Attenuation Range: | 0~31.5dB |
| Attenuation Accuracy: | ±0.5dB typ. @0.5~16dB ±0.5dB typ. @17.5~31.5dB |
| VSWR: | 1.8 max. |
| Voltage/Current: | -5V @15mA typ. |
| Input Power: | +25dBm max. |

Mechanical

| | |
|--|------------------------------------|
| Size*1: | 32*20*12.7mm 1.26*0.787*0.5in |
| RF Connectors: | SMA Female |
| Power Supply & Control Interface Connectors: | J30J-15ZKP |
| Mounting: | 4-Φ2.7mm through-hole |
| Logic Input: | On: 1(+3~+5V) Off: 0(0~+0.5V) |

[1] Exclude connectors.

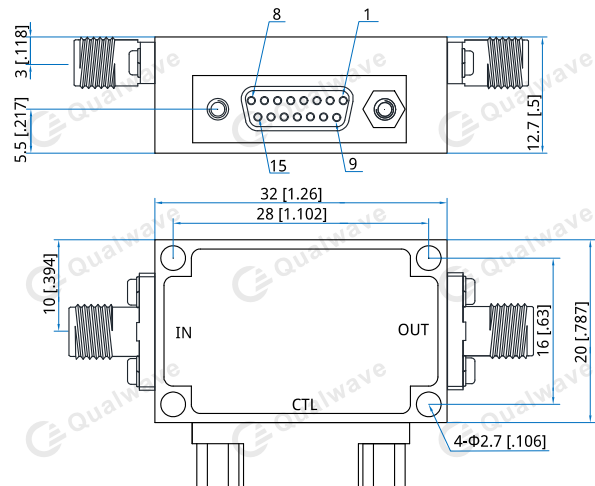
Pin Numbering

| 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

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Customization is available upon request.