

QDA-1000-26500-31.75-0.25

1~26.5GHz, 31.75dB, 0.25dB

Features:

- * Broadband
- * High Dynamic Range

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar



Electrical

| | |
|-----------------------|---------------|
| Frequency: | 1~26.5GHz |
| Insertion Loss: | 5dB typ. |
| Step: | 0.25dB |
| Attenuation Range: | 0~31.75dB |
| Attenuation Accuracy: | ±1dB typ. |
| VSWR: | 2 typ. |
| Voltage/Current: | -5V @6mA typ. |

Absolute Maximum Ratings*1

Input Power: +24dBm max.

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

Mechanical

| | |
|------------------------|--------------------------------------|
| Size*2: | 36*26*12mm 1.417*1.024*0.472in |
| RF Connectors: | SMA Female |
| Switching Time: | 20ns typ. |
| Power Supply & Control | 30J-9ZKP |
| Interface Connectors: | |
| Mounting: | 4-Φ2.8mm through-hole |
| Logic Input: | On: 1(+2.3~+5V) Off: 0(0~+0.8V) |

[2] Exclude connectors.

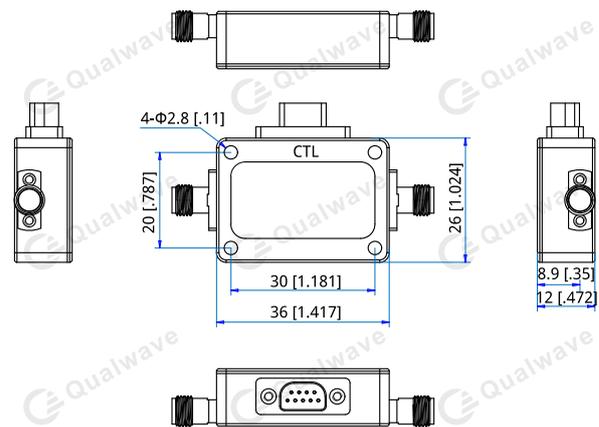
Pin Numbering

| Pin | Function | Pin | Function |
|-----|------------|-----|----------|
| 1 | C1:-0.25dB | 6 | C6:-8dB |
| 2 | C2:-0.5dB | 7 | C7:-16dB |
| 3 | C3:-1dB | 8 | VEE |
| 4 | C4:-2dB | 9 | GND |
| 5 | C5:-4dB | | |

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 | C7 | VEE | Attenuation State |
|-------|----|----|----|----|----|----|----|-----|-------------------|
| - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -5V | Reference IL |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | -5V | 0.25dB |
| 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | -5V | 0.5dB |
| 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | -5V | 1dB |
| 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | -5V | 2dB |
| 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | -5V | 4dB |
| 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | -5V | 8dB |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | -5V | 16dB |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -5V | 31.75dB |

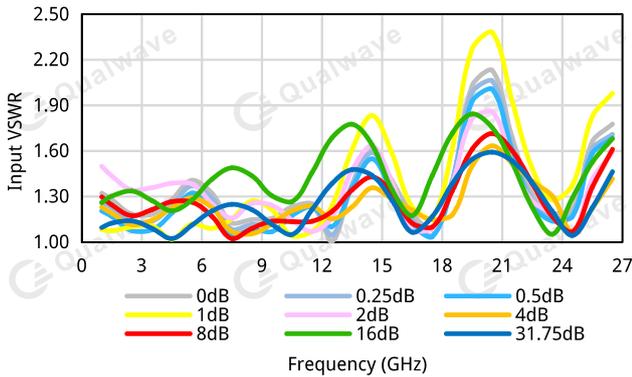
How To Order

[QDA-1000-26500-31.75-0.25](#)

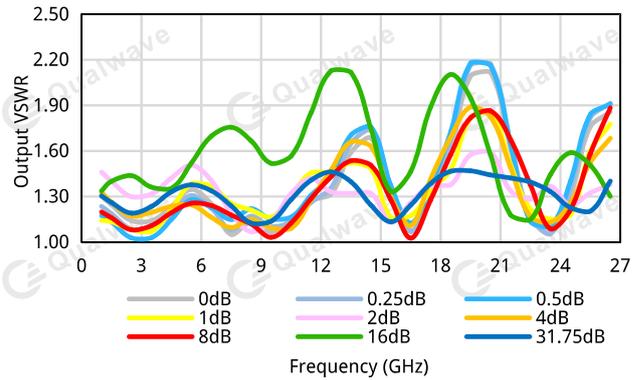
Customization is available upon request.

Typical Performance Curves

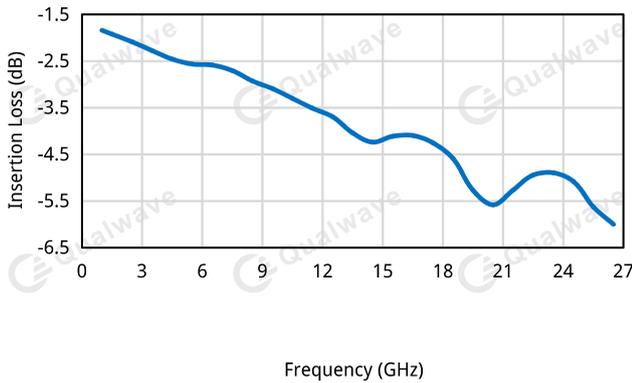
Input VSWR vs. Frequency



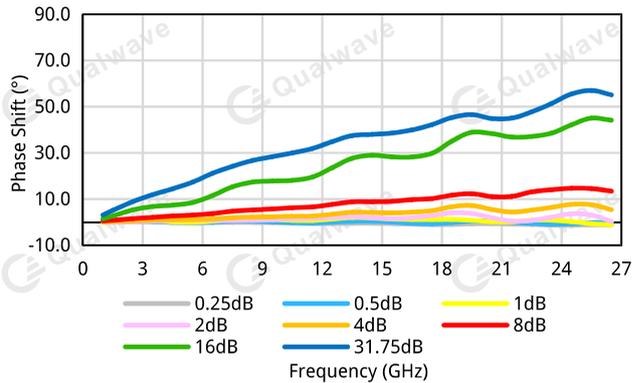
Output VSWR vs. Frequency



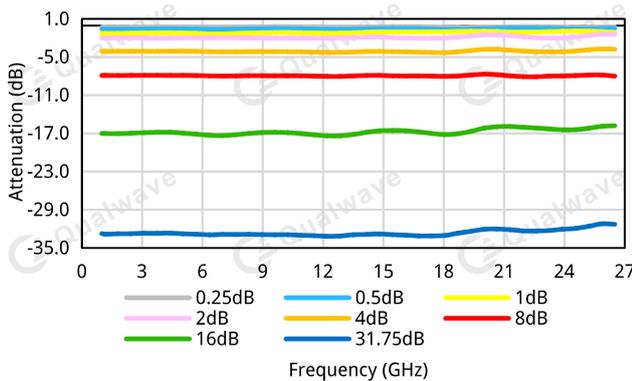
Insertion Loss vs. Frequency



Phase Shift vs. Frequency



Attenuation vs. Frequency



Attenuation Accuracy vs. Frequency

