

QDA-2000-18000-50-0.1

2~18GHz, 50dB, 0.1dB

Features:
 * Broadband
 * High Dynamic Range

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency:	2~18GHz
Insertion Loss:	7dB max.
Attenuation Flatness:	±0.5dB typ. @0.1~10dB ±1.5dB typ. @10.1~30dB ±2dB typ. @30.1~50dB
Step:	0.1dB
Attenuation Range:	0~50dB
Attenuation Accuracy:	±0.5dB typ. @10dB ±1.5dB typ. @30dB ±2dB typ. @50dB
VSWR:	2.5 max.
Voltage/Current:	+12V @300mA typ.
Input Power:	+24dBm max.

Mechanical

Size*1:	50.8*45.72*12.7mm 2*1.8*0.5in
RF Connectors:	SMA Female
Switching Time:	5000ns typ.
Power Supply & Control Interface Connectors:	15 Pin Micro-D Female
Mounting:	4-Φ3mm through-hole
Logic Input:	On: 1(+3~+5V) Off: 0(0~+0.5V)

[1] Exclude connectors.

Pin Numbering

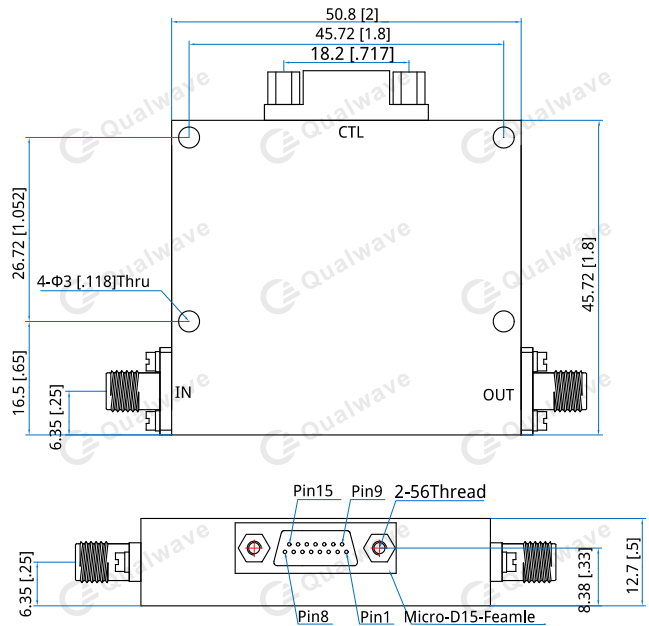
Pin	Function	Pin	Function
1	+12V	8	C5: -1.6dB
2	GND	9	C6: -3.2dB
3	NC	10	C7: -6.4dB
4	C1: -0.1dB	11	C8: -12.8dB
5	C2: -0.2dB	12	C9: -25.6dB
6	C3: -0.4dB	13~15	NC
7	C4: -0.8dB		

Environmental

Operating Temperature:	-40~+85°C
Non-operating Temperature:	-55~+125°C

Customization is available upon request.

Outline Drawings



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

Logic Table

State	C1	C2	C3	C4	C5	C6	C7	C8	C9	Attenuation State
-	1	1	1	1	1	1	1	1	1	Reference IL
1	0	1	1	1	1	1	1	1	1	0.1dB
2	1	0	1	1	1	1	1	1	1	0.2dB
3	1	1	0	1	1	1	1	1	1	0.4dB
4	1	1	1	0	1	1	1	1	1	0.8dB
5	1	1	1	1	0	1	1	1	1	1.6dB
6	1	1	1	1	1	0	1	1	1	3.2dB
7	1	1	1	1	1	1	0	1	1	6.4dB
8	1	1	1	1	1	1	1	0	1	12.8dB
9	1	1	1	1	1	1	1	1	0	25.6dB
11	0	0	0	0	0	0	0	0	0	50dB

How To Order

QDA-2000-18000-50-0.1