

QDA-1000-18000-127-0.5

1~18GHz, 127dB, 0.5dB

Features:
 * Broadband
 * High Dynamic Range

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar

Electrical

Frequency:	1~18GHz
Insertion Loss:	12.5dB typ.
Attenuation Flatness:	±0.7dB typ. @0.5~16dB ±1dB typ. @17.5~31.5dB ±2.5dB typ. @32~127dB
Step:	0.5dB min.
Attenuation Range:	0~127dB
Attenuation Accuracy:	±0.8dB typ. @0.5~16dB ±1dB typ. @17.5~31.5dB ±2.5dB typ. @32~127dB
VSWR:	2.5 typ.
Voltage/Current:	+5V @120mA typ. -5V @120mA typ.
Input Power:	+25dBm max.
Switching Time:	1us typ.

Mechanical

Size*1:	32*20*12.7mm 1.26*0.787*0.5in
RF Connectors:	SMA Female
Power Supply & Control Interface Connectors:	MICOD-15 Female 380-015-213L001
Mounting:	4-Φ2.7mm through-hole
Logic Input:	On: 0(0~+0.5V) Off: 1(+3~+5V)

[1] Exclude connectors.

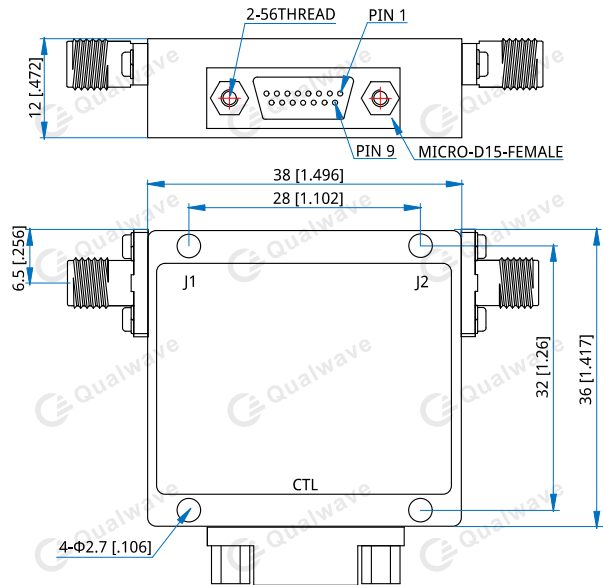
Pin Numbering

Pin	Function	Pin	Function
1	+5V	7	C4:-4dB
2	GND	8	C5:-8dB
3	-5V	9	C6:-16dB
4	C1:-0.5dB	10	C7:-32dB
5	C2:-1dB	11	C8:-64dB
6	C3:-2dB	12~15	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	C7	C8	Attenuation State
-	1	1	1	1	1	1	1	1	Reference IL
1	0	1	1	1	1	1	1	1	0.5dB
2	1	0	1	1	1	1	1	1	1dB
3	1	1	0	1	1	1	1	1	2dB
4	1	1	1	0	1	1	1	1	4dB
5	1	1	1	1	0	1	1	1	8dB
6	1	1	1	1	1	0	1	1	16dB
7	1	1	1	1	1	1	0	1	32dB
8	1	1	1	1	1	1	1	0	64dB
9	0	0	0	0	0	0	0	0	127dB

How To Order

QDA-1000-18000-127-0.5

Customization is available upon request.