

QDA-0.1-50000-61.75-0.25

0.1MHz~50GHz, 61.75dB, 0.25dB

Features:

- * Broadband
- * High Dynamic Range

Applications:

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



Electrical

Frequency:	0.1MHz~50GHz
Insertion Loss:	10dB typ.
Step:	0.25dB
Attenuation Range:	0~61.75dB
Attenuation Accuracy:	±1.5dB typ. @0~29.75dB ±4dB typ. @30~61.75dB
VSWR:	2.8 typ.
Voltage/Current:	-5V @10mA typ.
Switching Time:	20ns typ.
Logic Input:	On: 1(+2.3~+5V) Off: 0(0~+0.8V)

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:	2.4mm Female (Removable)
Power Supply & Control Interface Connectors:	J30J-15ZKP
Mounting:	4-Φ2.8mm through-hole

[2] Exclude connectors.

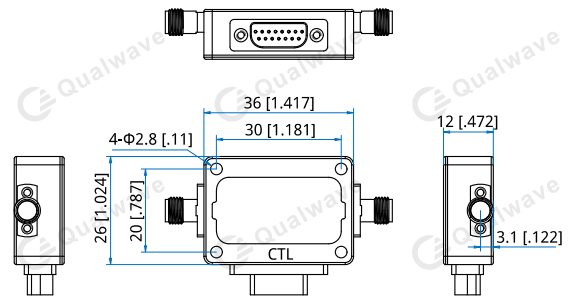
Pin Numbering

Pin	Function	Pin	Function
1	C1:-0.25dB	7	C7:-16dB
2	C2:-0.5dB	8	C8:-30dB
3	C3:-1dB	9-13	NC
4	C4:-2dB	14	VEE
5	C5:-4dB	15	GND
6	C6:-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	C7	C8	VEE	Attenuation State
-	0	0	0	0	0	0	0	0	-5V	Reference IL
1	1	0	0	0	0	0	0	0	-5V	0.25dB
2	0	1	0	0	0	0	0	0	-5V	0.5dB
3	0	0	1	0	0	0	0	0	-5V	1dB
4	0	0	0	1	0	0	0	0	-5V	2dB
5	0	0	0	0	1	0	0	0	-5V	4dB
6	0	0	0	0	0	1	0	0	-5V	8dB
7	0	0	0	0	0	0	1	0	-5V	16dB
8	0	0	0	0	0	0	0	1	-5V	30dB
9	1	1	1	1	1	1	1	1	-5V	61.75dB

How To Order

[QDA-0.1-50000-61.75-0.25](#)

Customization is available upon request.

Typical Performance Curves

