

QDDL-100-18000-78.75-1.25

0.1~18GHz, 78.75ps, 1.25ps

Features:
 * Programmable
 * High Precision
 * Low Jitter

Applications:
 * Radar
 * Communication System
 * Laboratory Test



Electrical

Frequency:	0.1~18GHz
Insertion Loss:	10dB typ.
Step:	1.25ps
Delay Range:	1.25~78.75ps
Delay Accuracy:	±4ps typ.
Input Power (P1dB):	24dBm typ.
Input VSWR:	1.8 typ.
Switching Time:	25ns typ.
Voltage/Current:	-5V @6mA typ.
Logic Input:	On: 1(+2.3~+5V) Off: 0(0~+0.8V)

Absolute Maximum Ratings*1

Input Power:	+25dBm
Supply Voltage:	-5.3V

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

Mechanical

Size*2:	26*26*12mm 1.024*1.024*0.472in
RF Connectors:	SMA Female
Power Supply & Control Interface Connectors:	J30J-9ZKP
Mounting:	4-Φ2.8mm through-hole

[2] Exclude connectors.

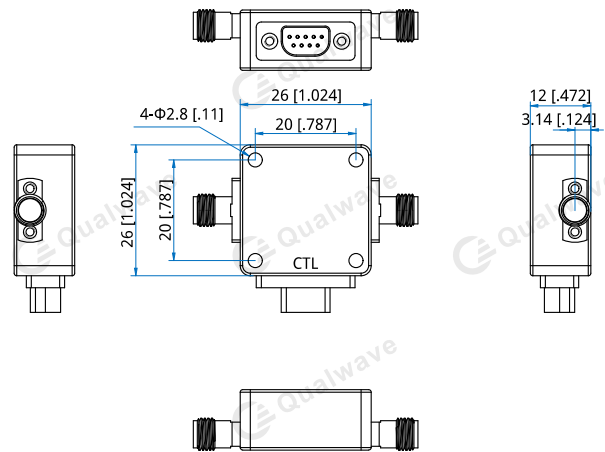
Pin Numbering

Pin	Function	Pin	Function
1	C1: 1.25ps	6	C6: 40ps
2	C2: 2.5ps	7	NC
3	C3: 5ps	8	VEE
4	C4: 10ps	9	GND
5	C5: 20ps		

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	VEE	Attenuation State
-	0	0	0	0	0	0	-5V	Reference IL
1	1	0	0	0	0	0	-5V	1.25ps
2	0	1	0	0	0	0	-5V	2.5ps
3	0	0	1	0	0	0	-5V	5ps
4	0	0	0	1	0	0	-5V	10ps
5	0	0	0	0	1	0	-5V	20ps
6	0	0	0	0	0	1	-5V	40ps
7	1	1	1	1	1	1	-5V	78.75ps

How To Order

QDDL-100-18000-78.75-1.25

Customization is available upon request.

Typical Performance Curves

