

Digital Controlled Attenuator

FPDA-500-40000-63.5-0.5

0.5~40GHz. 63.5dB. 0.5dB

Features:

- Broadband
- High Dynamic Range

Applications:

- Wireless
- Transmitter
- Laboratory Test

Electrical

Frequency	0.5 ~ 40GHz
Insertion Loss	11.5dB Max.
Attenuation Flatness	±1dB typ. @20dB ±2dB typ. @40dB ±3dB typ. @63.5dB
Step	0.5dB
Attenuation Range	0.5 ~ 63.5dB
Attenuation Accuracy	±2dB typ. @0 - 63.5dB
VSWR	1.7 Max. @0.5 ~ 18GHz 2.0 Max. @18 ~ 40GHz
Voltage/Current	+3.3V @30mA Max. -3.3V @30mA Max.
Input Power	+25dBm Max.

Environmental

Operating Temperature	-45 ~ +85°C
Non-operating Temperature	-55 ~ +125°C

Pin Numbering

Pin	Function	Pin	Function
1	+3.3V	7	C4
2	COM	8	C5
3	-3.3V	9	C6
4	C1	10	C7
5	C2	11-15	NC
6	C3		

Mechanical

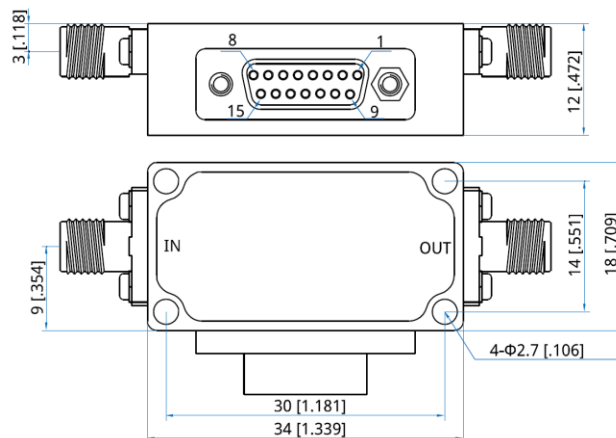
Size^[1] (mm)	34 x 18 x 12
Size (in)	1.339 x 0.709 x 0.472
Switching Time	200 ns
RF Connectors	SMA Female
Power Supply & Control	D-Sub 15
Housing Material	Nickel Plated
Mounting	4-Φ2.7 through-hole
Logic Input	On: 1 (+1.2 ~ 3.3V) Off: 0 (0 ~ 0.8V)

[1] Exclude connectors

Logic Table

State	C1	C2	C3	C4	C5	C6	C7	Att. 63.5dB
-	0	0	0	0	0	0	0	Reference IL
1	1	0	0	0	0	0	0	0.5dB
2	0	1	0	0	0	0	0	1dB
3	0	0	1	0	0	0	0	2dB
4	0	0	0	1	0	0	0	4dB
5	0	0	0	0	1	0	0	8dB
6	0	0	0	0	0	1	0	16dB
7	0	0	0	0	0	0	1	32dB
8	1	1	1	1	1	1	1	63.5dB

Outline Drawings



Unit: mm [in]
Tolerance: ±0.5mm [±0.02in]