

FDA-100-8000-30-1

0.1~8GHz, 30dB, 1dB

Features:

- * Broadband
- * High Dynamic Range

Applications:

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



Electrical

| | |
|-----------------------|----------------|
| Frequency: | 0.1~8GHz |
| Insertion Loss: | 3dB typ. |
| Step: | 1dB |
| Attenuation Range: | 0~30dB |
| Attenuation Accuracy: | ±1.5dB typ. |
| VSWR: | 1.5 typ. |
| Voltage/Current: | +5V @10mA typ. |

Absolute Maximum Ratings*1

| | |
|--------------|-------------|
| Voltage: | +5.4V max. |
| Input Power: | +30dBm max. |

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

Mechanical

| | |
|--|---|
| RF Connectors: | SMA Female |
| Switching Time: | 100ns typ. |
| Power Supply & Control Interface Connectors: | Feed Through/Terminal Post/J30J-9ZKP/J30J-15ZKP |
| Logic Input: | On: 1 (+2~+5V) Off: 0 (0~+0.8V) |

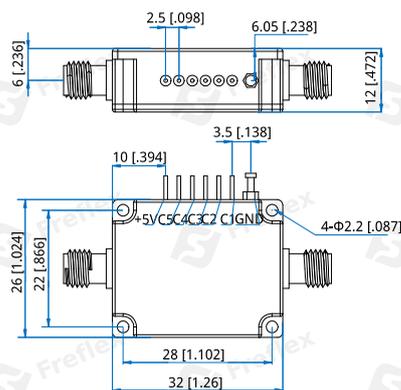
Pin Numbering

| Pin | Function | Pin | Function |
|-----|----------|-------|----------|
| 1 | C1:-8dB | 5 | C5:-15dB |
| 2 | C2:-4dB | 6~n-2 | NC |
| 3 | C3:-2dB | n-1 | +5V |
| 4 | C4:-1dB | n | GND |

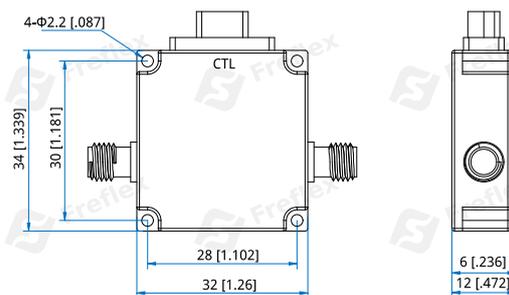
Logic Table

| State | C1 | C2 | C3 | C4 | C5 | Attenuation State |
|-------|----|----|----|----|----|-------------------|
| 0 | 1 | 1 | 1 | 1 | 1 | Reference IL |
| 1 | 1 | 1 | 1 | 0 | 1 | 1dB |
| 2 | 1 | 1 | 0 | 1 | 1 | 2dB |
| 3 | 1 | 0 | 1 | 1 | 1 | 4dB |
| 4 | 0 | 1 | 1 | 1 | 1 | 8dB |
| 5 | 1 | 1 | 1 | 1 | 0 | 15dB |
| 6 | 0 | 0 | 0 | 0 | 1 | 15dB |
| 7 | 0 | 0 | 0 | 0 | 0 | 30dB |

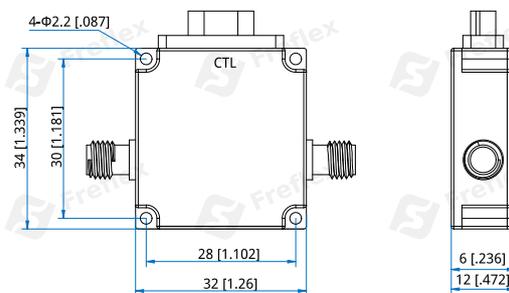
Outline Drawings



Outline A



Outline B



Outline C

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

Environmental

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

How To Order

FDA-100-8000-30-1 - Pin, Outline A
FDA-100-8000-30-1-1 - J30J-9ZKP, Outline B
FDA-100-8000-30-1-2 - J30J-15ZKP, Outline C

Customization is available upon request.

Typical Performance Curves

