

## FDPS-1000-2000-360-6

### 1~2GHz, 360°, 6Bits

Features:  
 \* Broadband  
 \* High Reliable

Applications:  
 \* Laboratory Test  
 \* Instrumentation

#### Electrical

|   |                 |
|---|-----------------|
| Frequency Range:                        | 1~2GHz          |
| Phase Range:                            | 360° max.       |
| Control Bits:                           | 6 Bits          |
| Step:                                   | 5.625° typ.     |
| Insertion Loss:                         | 5.5dB max.      |
| Insertion Loss Temperature Coefficient: | 0.003dB/°C typ. |
| Phase Flatness:                         | ±15° max.       |
| Input VSWR:                             | 2.5 max.        |
| Output VSWR:                            | 2.5 max.        |
| Input Power (P1dB):                     | 27dBm typ.      |
| Input IP3:                              | 50dBm typ.      |
| Impedance:                              | 50Ω             |
| Voltage:                                | +12V            |
| Current:                                | 200mA typ.      |

#### Mechanical

|                    |                                   |
|--------------------|-----------------------------------|
| Size*1:            | 45*43*14mm<br>1.772*1.693*0.551in |
| Weight:            | 60g                               |
| RF Connectors:     | SMA Female                        |
| Control Connector: | MICRO-D15 Female                  |
| Material:          | Aluminum                          |
| Mounting:          | 4-M3, depth 5mm                   |

[1] Exclude connectors.

#### Environmental

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

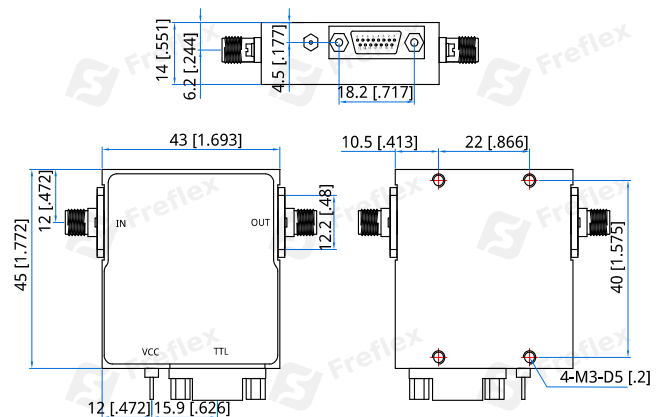
#### Pin Numbering

| Pin  | Function | Pin | Function |
|------|----------|-----|----------|
| 1~6  | Control  | 15  | GND      |
| 7~14 | NC       |     |          |

#### Control True Table

| Pin 6 | Pin 5 | Pin 4 | Pin 3 | Pin 2 | Pin 1 | Phase Shift (°) |
|-------|-------|-------|-------|-------|-------|-----------------|
| 1     | 1     | 1     | 1     | 1     | 1     | 0               |
| 1     | 1     | 1     | 1     | 1     | 0     | 5.6             |
| 1     | 1     | 1     | 1     | 0     | 1     | 11.25           |
| 1     | 1     | 1     | 0     | 1     | 1     | 22.5            |
| 1     | 1     | 0     | 1     | 1     | 1     | 45              |
| 1     | 0     | 1     | 1     | 1     | 1     | 90              |
| 0     | 1     | 1     | 1     | 1     | 1     | 180             |
| 0     | 0     | 0     | 0     | 0     | 0     | 354.3           |

#### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

#### How To Order

**FDPS-1000-2000-360-6**

Customization is available upon request.