# QDPS-8000-18000-360-6

8~18GHz, 360°, 6Bits

Features:
* Broadband
* High Reliable

AppliEations:
* Laboratory Test
* Instrumentation

## Electrical

| | |
|---|---|
| Frequency: | 8~18GHz |
| Insertion Loss: | 16dB max. |
| Phase Range: | 360° |
| Control Bits: | 6 Bits |
| Step: | 5.625° typ. |
| Phase Flatness: | ±3° typ. |
| Phase Accuracy: | ±3° typ. |
| VSWR: | 2.2 max. |
| Voltage/Current: | -5V/0.01A |
| Impedance: | 50Ω |
| Power: | +24dBm |

## Mechanical

| | |
|---|---|
| Size[*1]: | 24*18*12mm |
| | 0.945*0.709*0.472in |
| RF Connectors: | SMA Female |
| Power Supply Connectors: | Feed Through/Terminal Post |

[1] Exclude connectors.

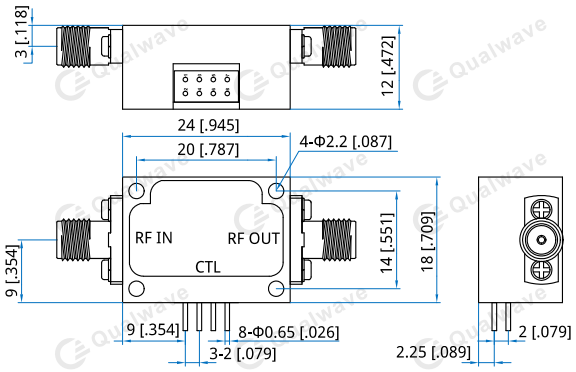
## Environmental

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

## Control True Table

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 |
|---|---|---|---|---|---|---|---|
| E6 | E5 | E4 | E3 | E2 | E1 | GND | VEE |

## Outline Drawings




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

## Logic Table

| E1 | E2 | E3 | E4 | E5 | E6 | VEE | |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | -5 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | | -5.625° |
| 0 | 1 | 0 | 0 | 0 | 0 | | -11.25° |
| 0 | 0 | 1 | 0 | 0 | 0 | | -22.5° |
| 0 | 0 | 0 | 1 | 0 | 0 | | -45° |
| 0 | 0 | 0 | 0 | 1 | 0 | | -90° |
| 0 | 0 | 0 | 0 | 0 | 1 | | -180° |
| 1 | 1 | 1 | 1 | 1 | 1 | | -354.375° |

## How To Order

QDPS-8000-18000-360-6

Customization is available upon request.