

# QMPS180

## 180°/GHz

**Features:**  
 \* Low Insertion Loss  
 \* High Power  
 \* High Reliable

**Applications:**  
 \* Laboratory Test  
 \* Transmitter  
 \* Instrumentation  
 \* Wireless

### Electrical

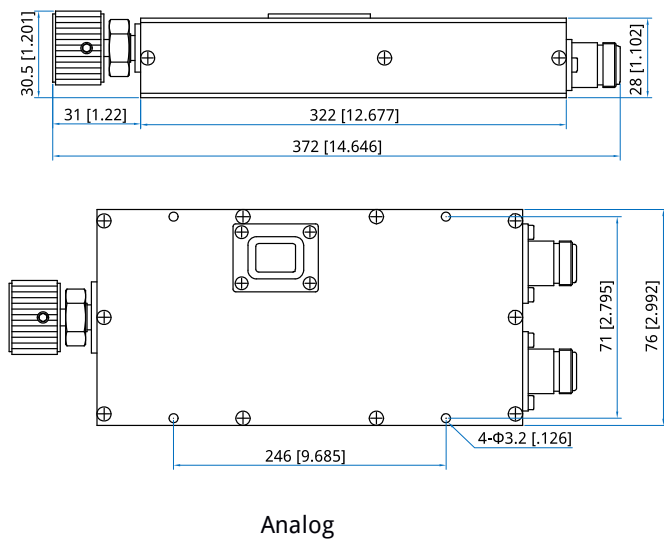
Frequency: DC~4GHz  
 Impedance: 50Ω  
 Average Power: 100W  
 Peak Power\*1: 5KW

[1] Pulse width: 5us, duty cycle: 2%.

Frequency (GHz)	VSWR (max.)	Insertion Loss (dB, max.)	Phase Adjustment*2 (°)
DC~1	1.4	1.0	0~180
DC~2	1.5	1.5	0~360
DC~3	1.5	1.75	0~540
DC~4	1.5	2.0	0~720

[2] Phase shift varies linearly corresponding to the frequency. For example, if the maximum phase shift is 360°@2GHz, the maximum phase shift is 180°@1GHz.

### Outline Drawings



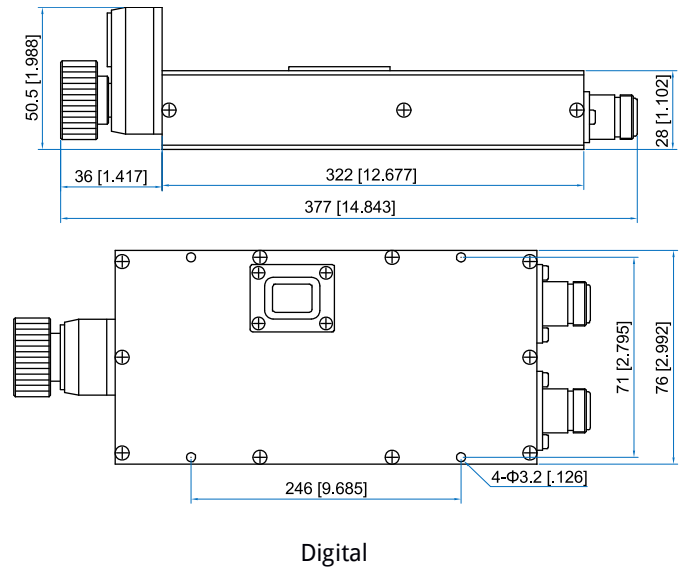
### Mechanical

Size\*3: 372\*76\*30.5mm  
 14.646\*2.992\*1.201in  
 Size\*4: 377\*76\*50.5mm  
 14.843\*2.992\*1.988in  
 Weight: 795g  
 RF Connectors: N Female, SMA Female  
 Outer Conductor: Nickel Plated Brass  
 Inner Conductor: Gold Plated Beryllium Bronze  
 Housing Material: Aluminum

[3] Analog.  
 [4] Digital.

### Environmental

Operating Temperature: -10~+50°C  
 Non-operating Temperature: -40~+70°C



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

**How To Order****QMPS180-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Display

**Examples:**

To order a digital phase shifter, DC-3GHz, N female to N female, specify QMPS180-3-N-D.

## Connector naming rules:

S - SMA

N - N

## Display naming rules:

A - Analog

D - Digital