

## QMPS20

### 20°/GHz

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

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

#### Electrical

Frequency: DC~18GHz  
 Impedance: 50Ω  
 Average Power: 50W  
 Peak Power\*1: 5KW

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

| Frequency (GHz) | VSWR (max.) | Insertion Loss (dB, max.) | Phase Adjustment*2 (°) |
|-----------------|-------------|---------------------------|------------------------|
| DC~2            | 1.25        | 0.35                      | 0~40                   |
| DC~3            | 1.3         | 0.5                       | 0~60                   |
| DC~6            | 1.4         | 0.75                      | 0~120                  |
| DC~9            | 1.5         | 1                         | 0~180                  |
| DC~12           | 1.6         | 1.25                      | 0~240                  |
| DC~18           | 1.6         | 1.5                       | 0~360                  |

[2] Phase shift varies linearly corresponding to the frequency. For example, if the maximum phase shift is 360°@18GHz, the maximum phase shift is 180°@9GHz.

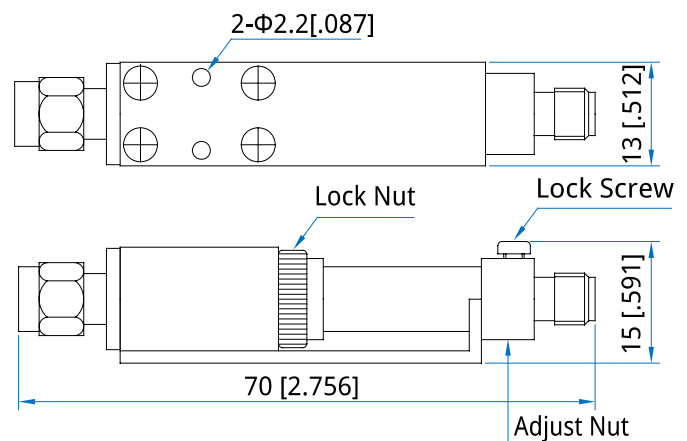
#### Mechanical

Size: 70\*13\*15mm  
 2.756\*0.512\*0.591in  
 Weight: 50g  
 RF Connectors: SMA  
 Outer Conductor: Gold plated brass  
 Male Inner Conductor: Gold plated brass  
 Female Inner Conductor: Gold plated beryllium copper

#### Environmental

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

#### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

#### Usage

1. Tighten the lock screw and lock nut.
2. Connect both ends to cables.
3. Release the lock screw and lock nut.
4. Turn the adjust nut to adjust phase.
5. Tighten the lock screw and lock nut.

#### How To Order

##### QMPS20-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA

Examples:

To order a phase shifter, DC-6GHz, SMA male to SMA female, specify QMPS20-6-S.