

# QPS4-5-6000-A

## SP4T, 0.005~6GHz, Absorptive



Features:  
 \* Low Insertion Loss  
 \* High Isolation

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

### Electrical

Frequency:	0.005~6GHz
Insertion Loss:	1.5dB typ.
Isolation:	50dB typ.
VSWR:	1.3 typ.
Voltage/Current:	+5V DC/10mA typ.
Switching Time:	200ns typ.
Control:	TTL High - 1 TTL Low/NC - 0
Impedance:	50Ω

### Absolute Maximum Ratings\*1

Average Power:	37dBm max. (On state, above 50MHz) 30dBm max. (On state, below 50MHz) 27dBm max. (Off state)
Voltage:	6V max.

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

### Mechanical

Size*1:	52*24*12mm 2.047*0.945*0.472in
RF Connectors:	SMA Female
Power Supply & Control Connectors:	Feed Through/Terminal Post
Mounting:	4-Φ2.7mm through-hole

[1] Exclude connectors.

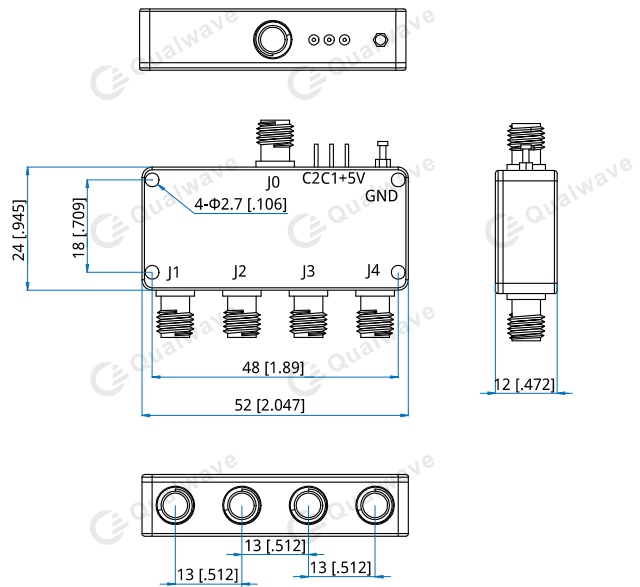
### Environmental

Operating Temperature:	-25~+85°C
Non-operating Temperature:	-40~+125°C

### Control True Table

C2	C1	Connection
0	0	J0 - J1 On
1	1	J0 - J2 On
1	0	J0 - J3 On
0	1	J0 - J4 On

### Outline Drawings



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

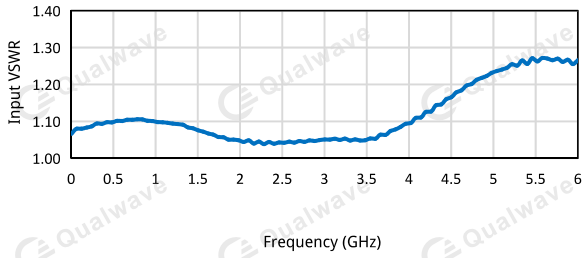
### How To Order

**QPS4-5-6000-A**

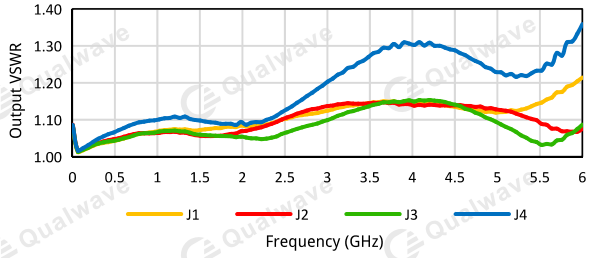
Customization is available upon request.

## Typical Performance Curves

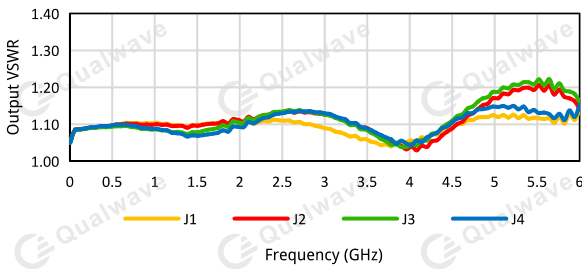
Input VSWR (J0) vs. Frequency



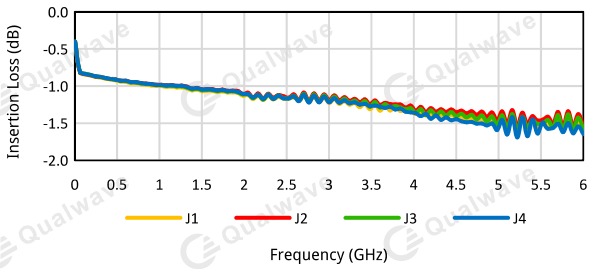
Output VSWR (Off state) vs. Frequency



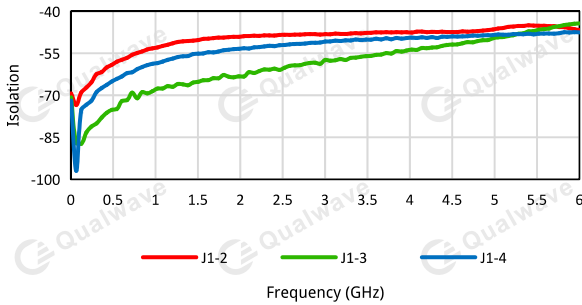
Output VSWR (On state) VSWR vs. Frequency



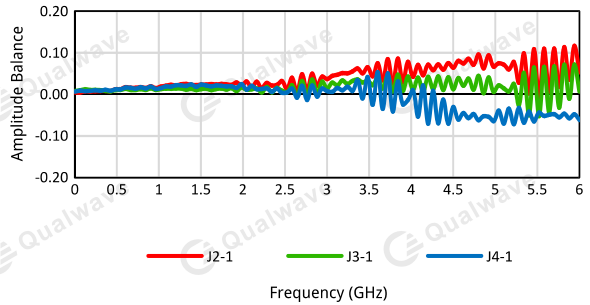
Insertion Loss vs. Frequency



Isolation vs. Frequency



Amplitude Balance vs. Frequency



Phase Balance vs. Frequency

