

QPS2-10-6000-R-1

SPDT, 0.01~6GHz, Reflective

Features:

- * Low Insertion Loss
- * High Isolation

Applications:

- * Wireless
- * Transmitter
- * Laboratory Test
- * Radar

Electrical

Frequency:	0.01~6GHz
Insertion Loss:	1.5dB max.
Insertion Loss Temperature Coefficient:	0.003dB/°C
Isolation:	33dB min.
VSWR:	1.5 max.
Input Power:	46dBm max.
DC Power Dissipation:	0.7W typ.
P0.1dB:	46dBm typ.
IIP3:	48dBm typ.
Impedance:	50Ω
Voltage:	+5V DC
Current:	100mA max.
Switching Time:	150ns max.
Control*1:	TTL High - 1 @2.8~5V TTL Low/NC - 0 @0~0.8V

[1] TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged. Cold Switching: Before changing any TTL signal (s), the RF input power must be blanked or the switch could be damaged.

Absolute Maximum Ratings*2

Biasing Voltage: +5V±10%

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

Mechanical

RF Connectors*3:	SMA Female
Weight:	113.4g max. (Including heat sink)
Material:	Copper
Finish:	Gold plated

Power Supply Connectors: Feed Through/Terminal Post

[3] DC blocks required. Input and output ports must not be connected to DC ground or any DC voltage or the switch will be damaged.

Environmental*4

Operating Temperature: -40~+85°C

Non-operating Temperature: -50~+105°C

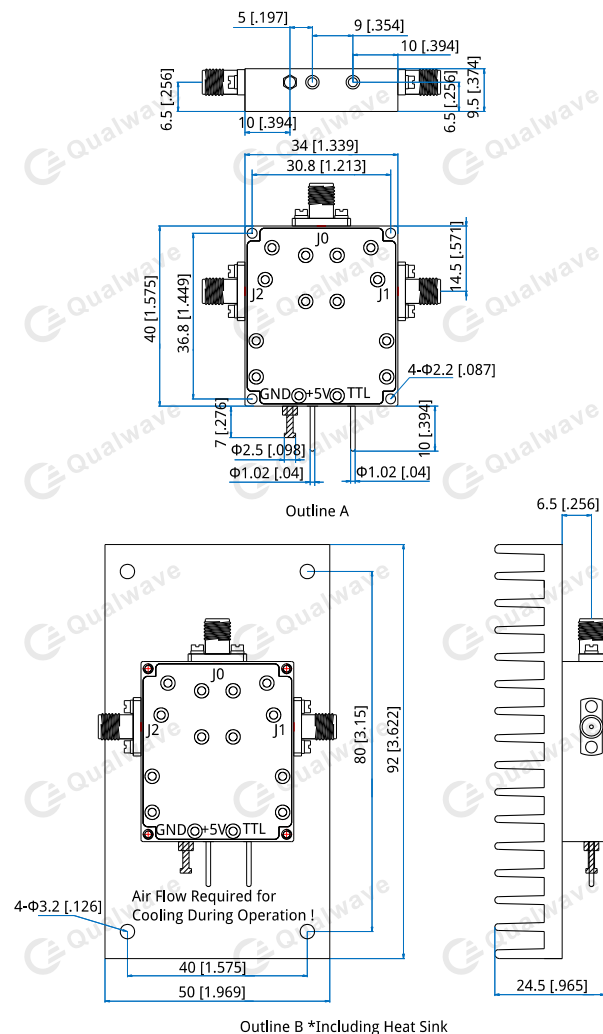
[4] If the device operates in high power state, recommend keeping case temperature lower than 60°C.

Control True Table*5

Ctrl	Connection
0	J0 - J2 On
1	J0 - J1 On

[5] Control Pin Customization available upon request.

Outline Drawings



*Heatsink Required - Mandatory for High Power Operation.

Unit: mm [in]

Tolerance: ±0.1mm [±0.004in]

How To Order[QPS2-10-6000-R-1](#) - Outline A[QPS2-10-6000-R-1-F](#) - Outline B

Customization is available upon request.