



QPD4-400-6000-30

4-Way, 0.4~6GHz

Features:
* Small Size
* Low Insertion Loss

Applications:
* Amplifiers
* Mixers
* Antennas

* Laboratory Test



Electrical

Frequency: 0.4~6GHz
Insertion Loss: 2dB max.
Input VSWR: 1.35 max.
Output VSWR: 1.25 max.
Isolation: 20dB min.

Amplitude Balance: ±0.3dB max.

Phase Balance: $\pm 5^{\circ}$ Impedance: 50Ω

Power @SUM Port: 30W max. as divider

2W max. as combiner

Mechanical

Connectors*1: SMA Female

N Female TNC Female SMP Male

[1] Female connectors can be replaced with male connectors on request.

Environmental

Operating Temperature: -35~+75°C Non-operating Temperature: -45~+85°C

How To Order

QPD4-400-6000-30-Y

Y: Connector type

Connector naming rules:

S - SMA Female (Outline A)

N - N Female (Outline B)

T - TNC Female

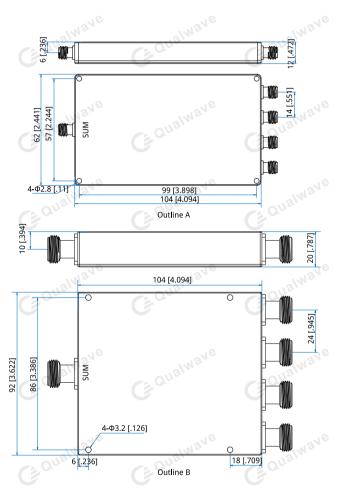
P - SMP Male

Examples:

To order a 4-way power divider, 0.4~6GHz, 30W, N female, specify QPD4-400-6000-30-N.

 $Customization \ is \ available \ upon \ request.$

Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

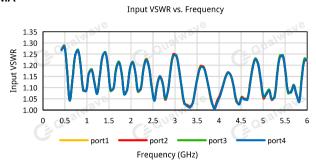


Typical Performance Curves

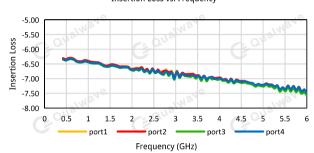
4-Way Power Dividers/Combiners

Output VSWR vs. Frequency

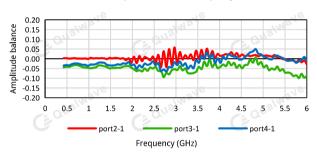
SMA



Insertion Loss vs. Frequency



Amplitude balance vs. Frequency



0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 port1 port2 port3

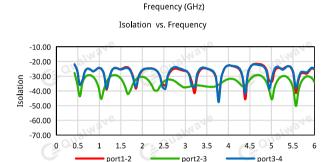
1.30 1.25

1.20 1.15

1.10 1.05

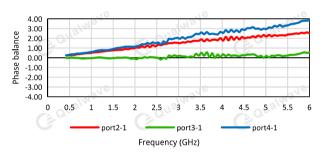
1.00

Output VSWR

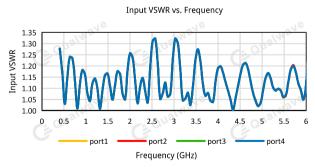


Frequency (GHz)

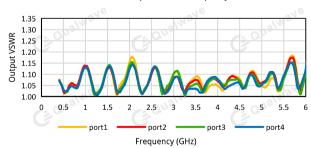
Phase balance vs. Frequency



Ν

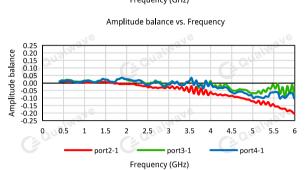


Output VSWR vs. Frequency

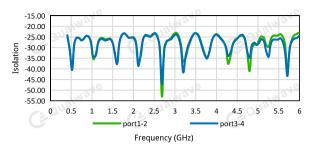




Insertion Loss vs. Frequency -5.00 -5.00 -5.50 SS -6.00 -6.50 -7.00 -7.50 -8.00 -8.50 -9.00 0 0.5 2 2.5 3 3.5 4.5 5 1 1.5 port1 port2 port3 Frequency (GHz)



4-Way Power Dividers/Combiners Isolation vs. Frequency



Phase balance vs. Frequency

