

2-Way Power Dividers/Combiners

QPD2-500-8000-30 2-Way, 0.5~8GHz, 30W

- Features:
- * Small Size
- Applications: * Amplifiers
- * Low Insertion Loss
- * Mixers
- * Antennas
- * Laboratory Test

Electrical

Frequency:	0.5~8GHz
Insertion Loss:	1.2dB max.
Input VSWR:	1.32 max.
Output VSWR:	1.2 max.
Isolation:	20dB min.
Amplitude Balance:	±0.2dB max.
Phase Balance:	±1°
Impedance:	50Ω
Power @SUM Port:	30W max. as divider
	2W max. as combiner

Mechanical

Size ^{*1} :	60*35*12mm
	2.362*1.378*0.472in
Connectors*2:	SMA Female
	SMP Male
Mounting:	4-Φ3.2mm through-hole

[1] Exclude connectors.

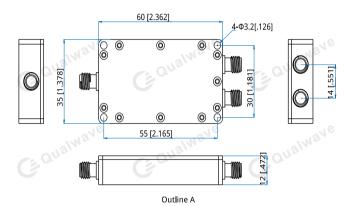
[2] Female connectors can be replaced with male connectors on request.

Environmental

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



Outline Drawings



Unit: mm [in] Tolerance: ±0.5mm [±0.02in]

How To Order QPD2-500-8000-30-Y

Y: Connector type

Connector naming rules: S - SMA Female (Outline A)

P - SMP Male

Examples:

To order a 2-way power divider, 0.5~8GHz, 30W, SMA female, specify QPD2-500-8000-30-S.

Customization is available upon request.



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Typical Performance Curves

SMA

Input VSWR vs. Frequency Output VSWR vs. Frequency 1.35 1.35 1.30 1.30 1.25 1.25 Output VSWR Input VSWR 1.20 1.20 1.15 1.15 1.10 1.10 1.05 1.05 1.00 1.00 0.5 1.25 2 2.75 3.5 4.25 5 5.75 6.5 7.25 8 0.5 1.25 5.75 6.5 7.25 8 2 2.75 5 3.5 4.25 Frequency(GHz) Frequency(GHz) Insertion Loss vs. Frequency Isolation vs. Frequency -3.00 0 -3.20 -10 Insertion Loss(dB) -3.40 [solation(dB) -20 -3.60 -30 -3.80 -40 -4.00 -50 -4.20 -60 0.5 1.25 2 2.75 4.25 5.75 6.5 7.25 8 3.5 5 0.5 1.25 2 2.75 3.5 4.25 5 5.75 6.5 7.25 8 Frequency(GHz) Frequency(GHz) Amplitude Balance vs. Frequency Phase Balance vs. Frequency 0.18 0.8 Amplitude Balance(dB) 0.15 0.6 Phase Balance(°) 0.12 0.4 0.09 0.2 0 0.06

-0.2

-0.4

0.5

1.25

2.75

3.5

2

4.25 Frequency(GHz) 5.75

5

6.5

7.25

8

0.03

0.00

0.5

1.25

2 2.75 3.5

4.25

Frequency(GHz)

5

5.75

6.5

7.25 8