

FPD4-500-6000-30

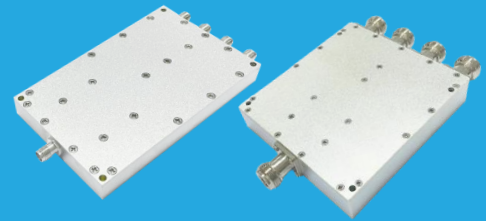
4-Way, 0.5~6GHz

Features:

- * Small Size
- * Low Insertion Loss

Applications:

- * Amplifiers
- * Mixers
- * Antennas
- * Laboratory Test



Electrical

Frequency:	0.5~6GHz
Insertion Loss:	2dB max.
Input VSWR:	1.35 max.
Output VSWR:	1.25 max.
Isolation:	20dB min.
Amplitude Balance:	±0.2dB max.
Phase Balance:	±2° max.
Impedance:	50Ω
Power @SUM Port:	30W max. as divider 2W max. as combiner

Mechanical

Connectors ^{*1} :	SMA Female N Female TNC Female SMP Male
Mounting:	4-Φ2.8mm through-hole (SMA) 4-Φ3.2mm through-hole (N)

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

Environmental

Operation Temperature: -35~+75°C

How To Order

FPD4-500-6000-30-Y

Y: Connector type

Connector naming rules:

S - SMA Female (Outline A)

N - N Female (Outline B)

T - TNC Female

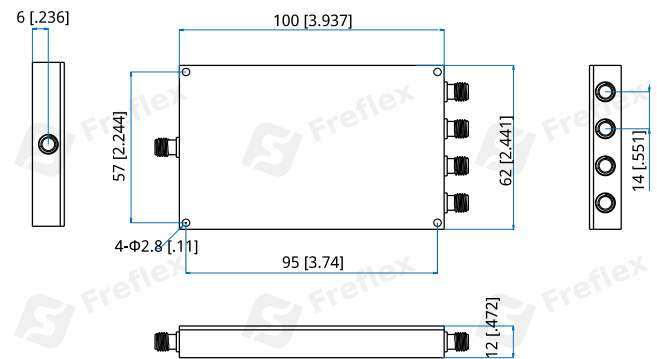
P - SMP Male

Examples:

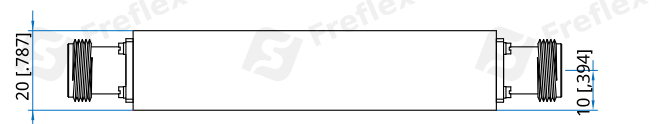
To order a 4-way power divider, 0.5~6GHz, 30W, N female, specify FPD4-500-6000-30-N.

Customization is available upon request.

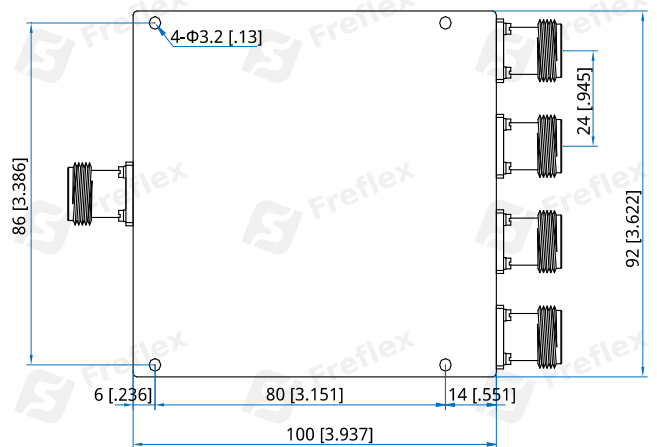
Outline Drawings



Outline A



Outline B



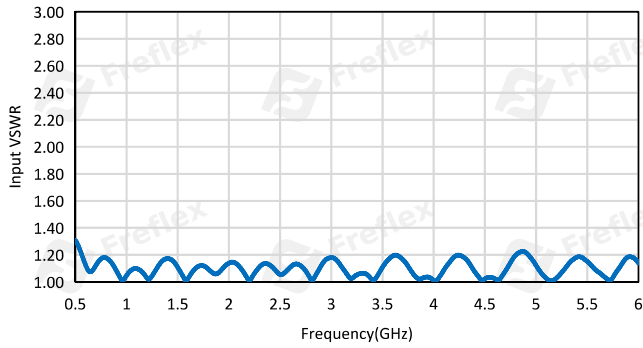
Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

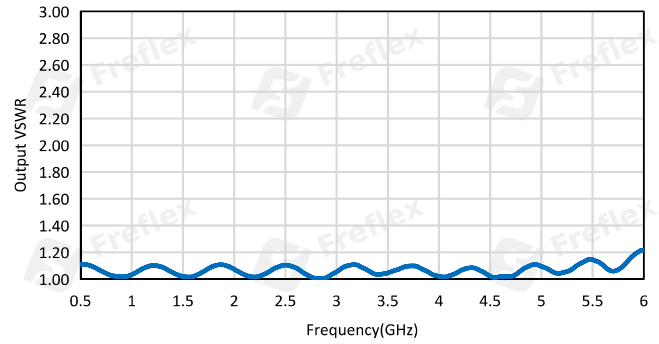
Typical Performance Curves

SMA

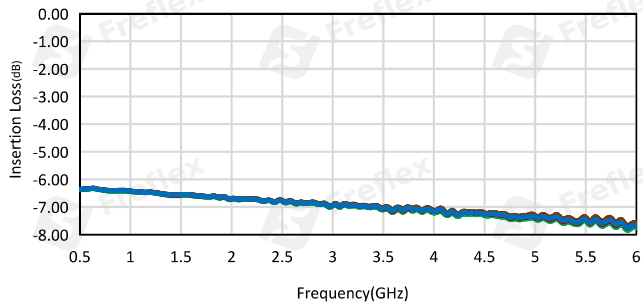
Input VSWR vs. Frequency



Output VSWR vs. Frequency

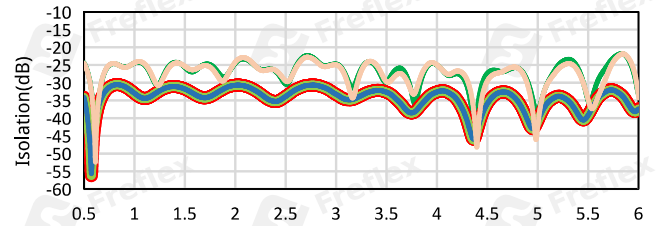


Insertion Loss vs. Frequency



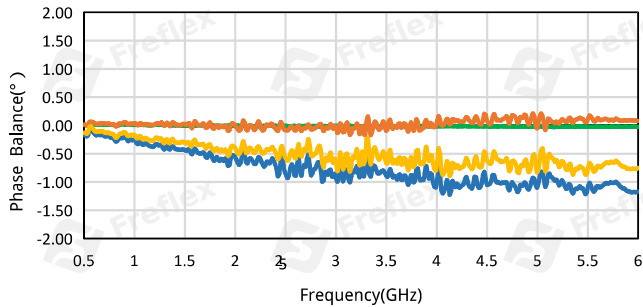
— Port1 — Port2 — Port3 — Port4

Isolation vs. Frequency



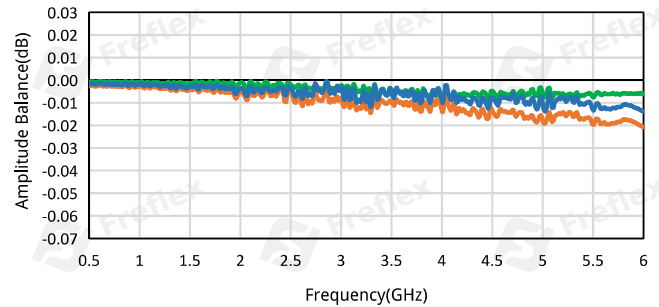
Frequency(GHz)
 — port1-2 — port1-3 — port1-4
 — port2-3 — port2-4 — port3-4

Phase Balance vs. Frequency



— Port1 — Port2 — Port3 — Port4

Amplitude Balance vs. Frequency

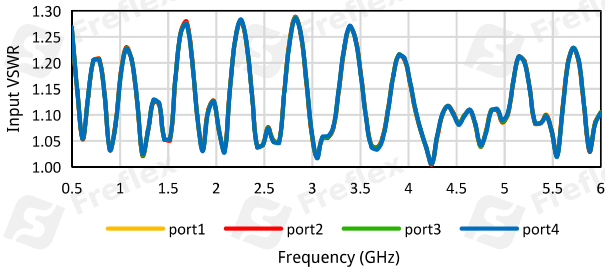


— Port2 — Port3 — Port4

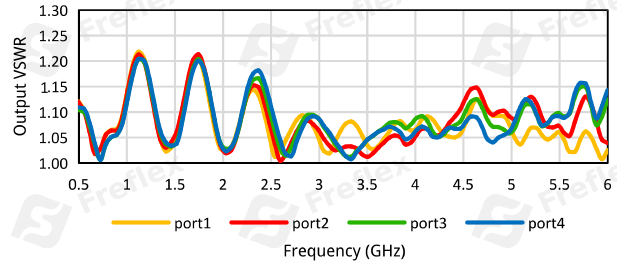
4-Way Power Dividers/Combiners

N

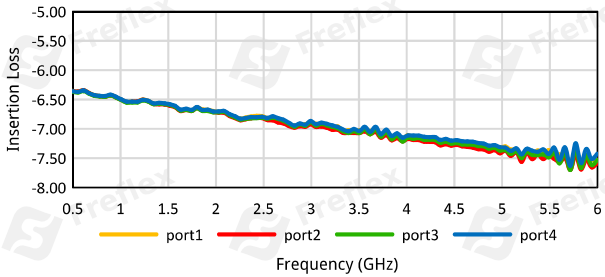
Input VSWR vs. Frequency



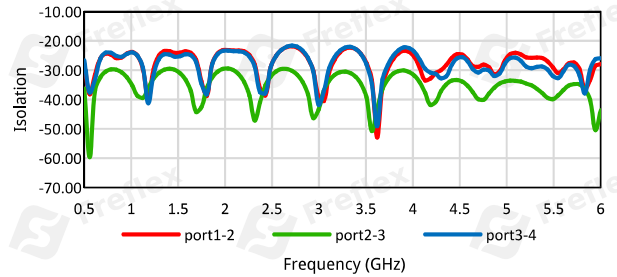
Output VSWR vs. Frequency



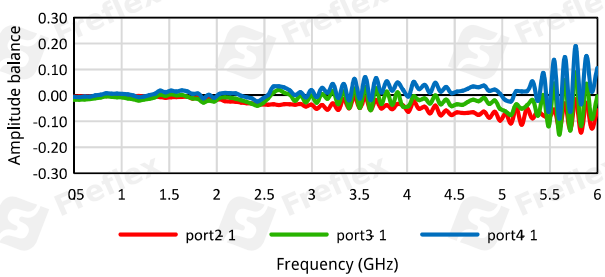
Insertion Loss vs. Frequency



Isolation vs. Frequency



Amplitude balance vs. Frequency



Phase balance vs. Frequency

