

FDDC-30-520-K2

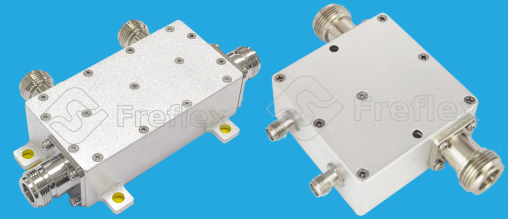
0.03~0.52GHz, 200W

Features:

- * Low Insertion Loss

Applications:

- * Amplifiers
- * Transmitter
- * Laboratory Test
- * Radar



Electrical

Frequency:	0.03~0.52GHz
Average Power:	200W
Impedance:	50Ω

Coupling (dB)	Insertion Loss (dB max.)	VSWR (Mainline) (max.)	VSWR (Coupling) (max.)	Coupling Flatness (±dB max.)	Directivity (dB min.)
30±1	0.7	1.15	1.5	1	20
40±1	0.3	1.2	1.3	1	20
50±1.5	0.2	1.1 typ.	1.3 typ.	1.5	20

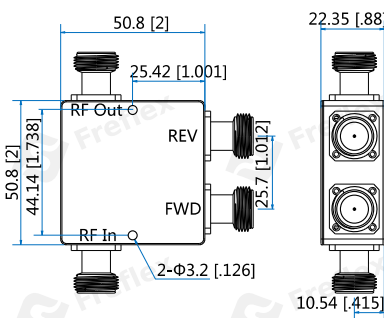
Mechanical

RF Connectors:	N Female, SMA Female
Coupling Connectors:	N Female, SMA Female
Mounting:	2-Φ3.2mm through-hole 4-Φ5mm through-hole

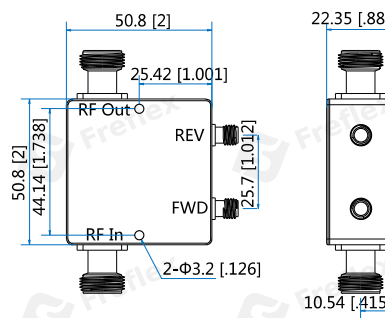
Environmental

Operating Temperature:	-40~+85°C
Non-operating Temperature:	-55~+100°C

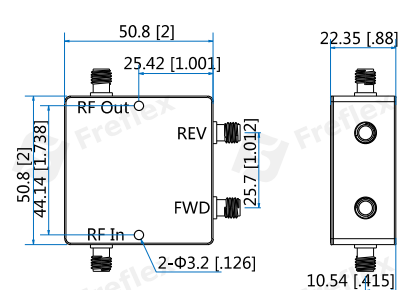
Outline Drawings



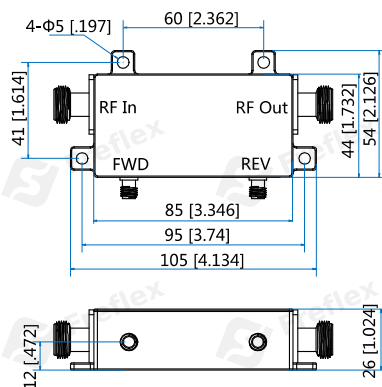
Outline A



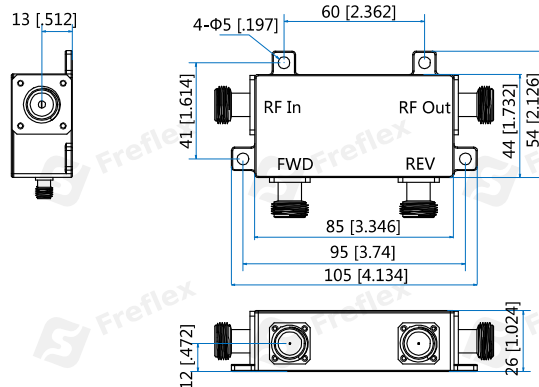
Outline B



Outline C



Outline D



Outline E

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

FDDC-30-520-K2-X-Y

X: Coupling (30, 40dB - Outline A, B, C, 50dB - Outline D, E)

Y: Connector type

Connector naming rules:

NS - N Female & SMA Female (Outline B, D)

N - N Female (Outline A, E)

S - SMA Female (Outline C)

Examples:

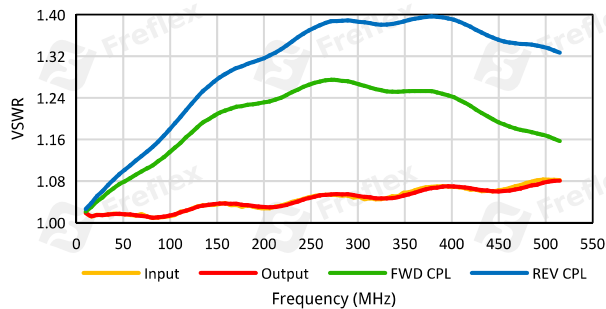
To order a dual directional coupler, 0.03~0.52GHz, 200W, 50dB, N Female & SMA Female, specify FDDC-30-520-K2-50-NS.

Customization is available upon request.

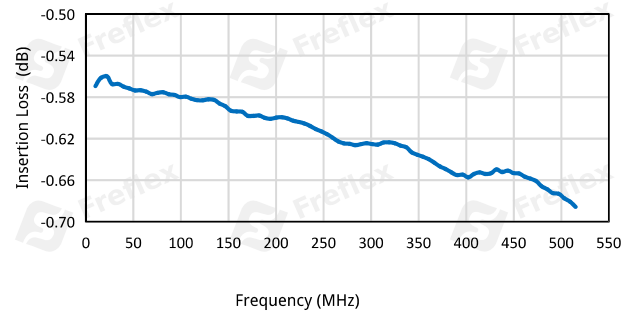
Typical Performance Curves

30dB

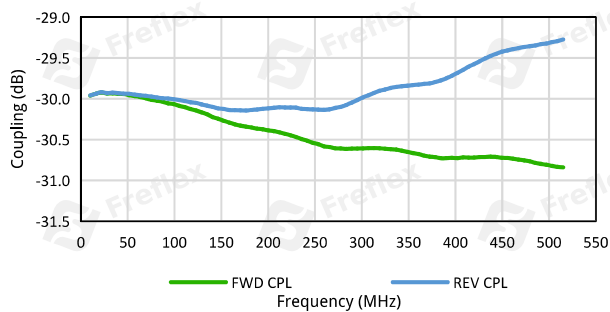
VSWR vs. Frequency



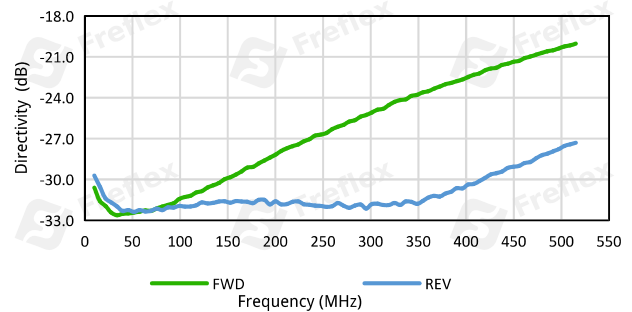
Insertion Loss vs. Frequency



Coupling vs. Frequency



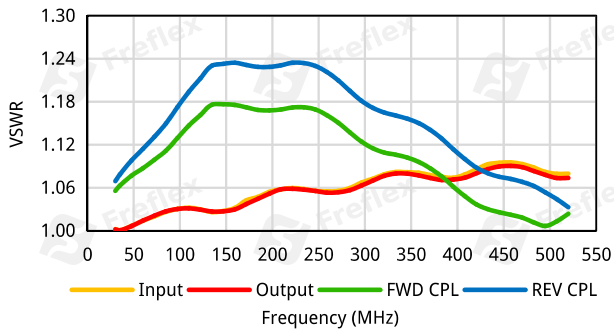
Directivity vs. Frequency



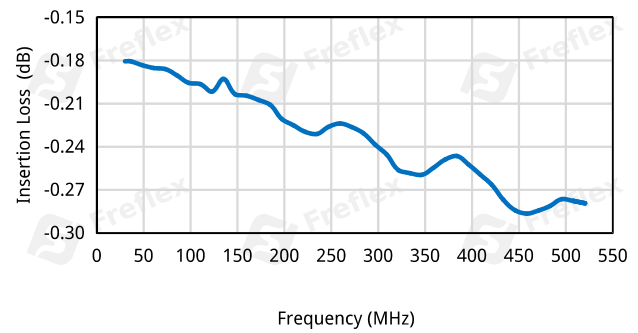
Dual Directional Coupler

40dB

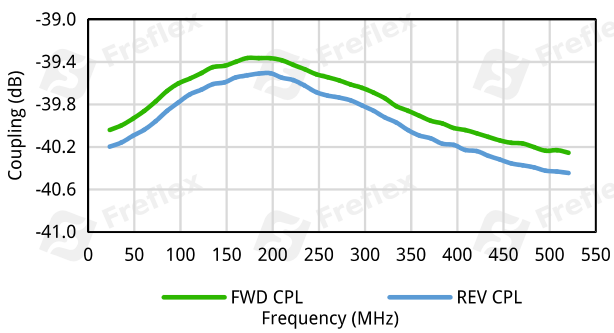
VSWR vs. Frequency



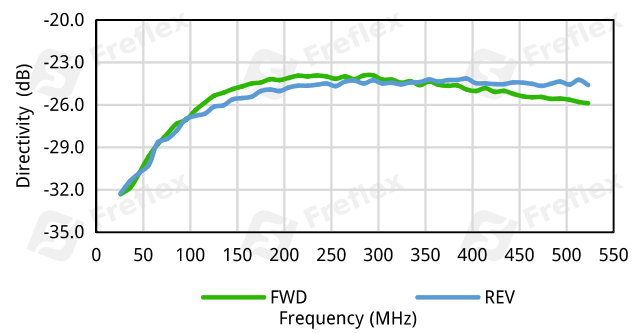
Insertion Loss vs. Frequency



Coupling vs. Frequency

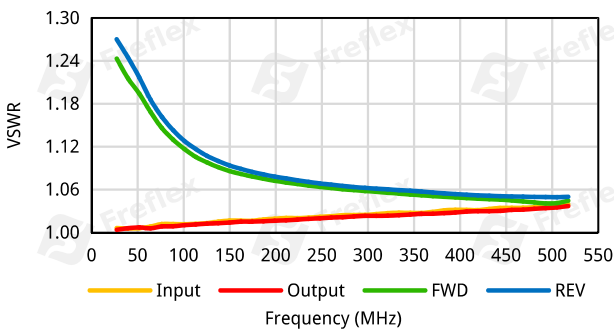


Directivity vs. Frequency

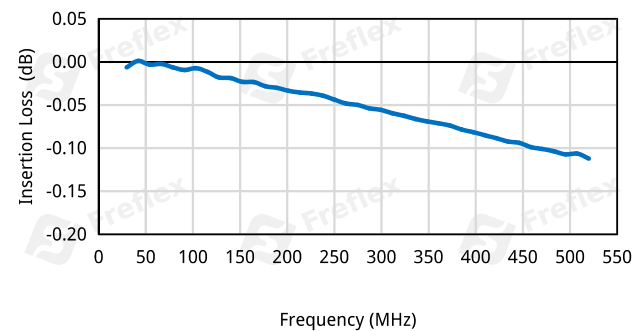


50dB

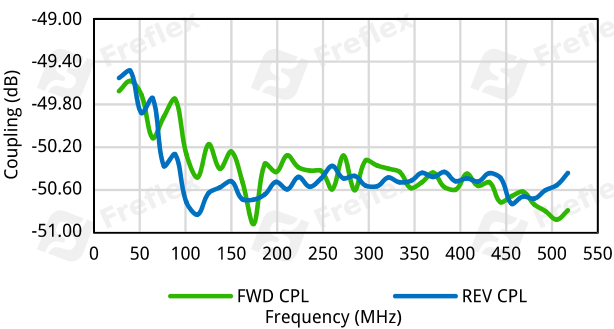
VSWR vs. Frequency



Insertion Loss vs. Frequency



Coupling vs. Frequency



Directivity vs. Frequency

