

## FDDC-6000-50000-20

### 6~50GHz, 20W

#### Features:

- \* Broadband
- \* Low Insertion Loss

#### Applications:

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

#### Electrical

Frequency: 6~50GHz  
 Power\*<sup>1</sup>: 20W CW max.  
 Peak Power: 1000W max.  
 Impedance: 50Ω

[1] The power needs to meet the matching VSWR not exceeding 1.2.

| Coupling (dB) | Insertion Loss (dB max.) | VSWR (max.)     | Coupling Flatness (dB max.) | Directivity (dB min.) |
|---------------|--------------------------|-----------------|-----------------------------|-----------------------|
| 10±1          | 3.2                      | 1.8 (Mainline ) | ±1.1                        | 9                     |
|               |                          | 1.8 (Coupling ) |                             |                       |
| 20±1.1        | 2.4                      | 1.8 (Mainline ) | ±1.1                        | 8                     |
|               |                          | 1.8 (Coupling ) |                             |                       |
| 30±1.1        | 2.3                      | 1.8 (Mainline ) | ±1.1                        | 8                     |
|               |                          | 1.8 (Coupling ) |                             |                       |

#### Mechanical

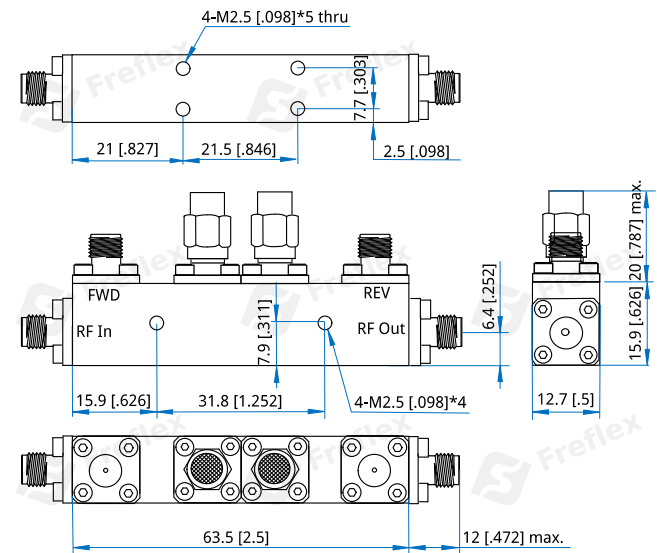
Size\*<sup>2</sup>: 63.5\*12.7\*15.9mm  
 2.5\*0.5\*0.626in  
 RF Connectors: 2.4mm Female  
 Coupling Connectors: 2.4mm Female

[2] Exclude connectors.

#### Environmental

Operation Temperature: -55~+85°C  
 Non-operation Temperature: -55~+100°C

#### Outline Drawings



Unit: mm [in]

Tolerance: x.±1mm [±0.039in], .x±0.5mm [±0.02in], .xx±0.1mm [±0.004in]

#### How To Order

**FDDC-6000-50000-20-X-Y**

X: Coupling (10dB, 20dB, 30dB)

Y: Connector type

Connector naming rules:

2 - 2.4mm female

Examples:

To order a dual directional coupler, 6~50GHz, 20W, 30dB, 2.4mm female, specify FDDC-6000-50000-20-30-2.

Customization is available upon request.