

## QDDC-18000-50000-20

### 18~50GHz, 20W

#### Features:

- \* Broadband
- \* Low Insertion Loss

#### Applications:

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

#### Electrical

Frequency: 18~50GHz  
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±0.9	3.2	1.8 (Mainline )	±0.9	9
		1.8 (Coupling )		
20±0.9	2.4	1.8 (Mainline )	±0.9	8
		1.8 (Coupling )		
30±0.9	2.3	1.8 (Mainline )	±0.9	8
		1.8 (Coupling )		

#### Mechanical

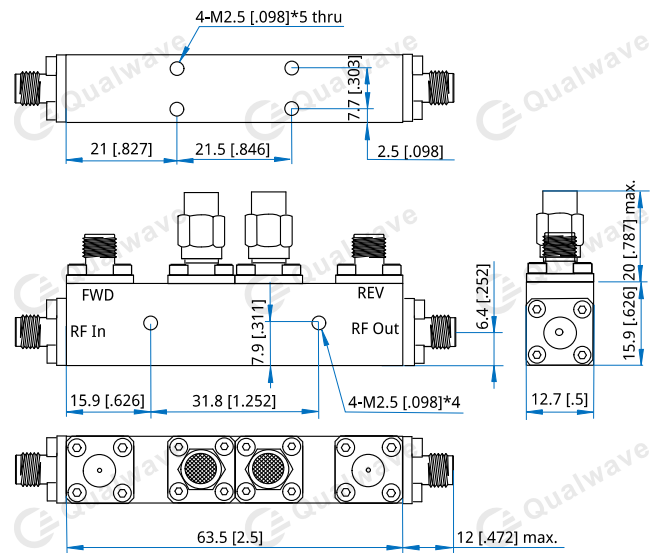
Size<sup>\*2</sup>: 63.5\*12.7\*15.9mm  
2.5\*0.5\*0.626in  
RF Connectors: 2.4mm Female  
Coupling Connectors: 2.4mm Female

[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

**QDDC-18000-50000-20-X-Y**

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

Y: Connector type

Connector naming rules:

2 - 2.4mm female

Examples:

To order a dual directional coupler, 18~50GHz, 20W, 30dB, 2.4mm female, specify QDDC-18000-50000-20-30-2.

Customization is available upon request.