



General Description:

MM-BDC-010500-20 is a 1.0 GHz to 50.0 GHz directional coupler having a 20 dB coupling factor and 10 dB directivity. This model handles an input power of 20 watts.

Features:

- Ultra Wide Band: 1.0-50.0 GHz
- Low Insertion Loss
- Flat Coupling Level

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications :

| Parameter | Value | | | Units |
|-----------------|-------|----------|------|-------|
| | Min | Typ | Max | |
| Frequency Range | 1.0 | | 50.0 | GHz |
| Coupling | | 20 ± 2.2 | | dB |
| Insertion Loss | | 3.0 | 3.5 | dB |
| VSWR | | | 1.9 | :1 |
| Directivity | 8 | 10 | | dB |
| Power Handling | | | 20 | W |
| Impedance | | 50 | | Ω |

Mechanical Specifications:

| Parameter | Value |
|----------------------|----------------------|
| Length | 84 mm |
| Width | 15 mm |
| Height | 11 mm |
| Material / Finishing | Aluminum/Black Paint |
| RF Connector | 2.4mm Female |



Focus on the future

Mountain Microwave

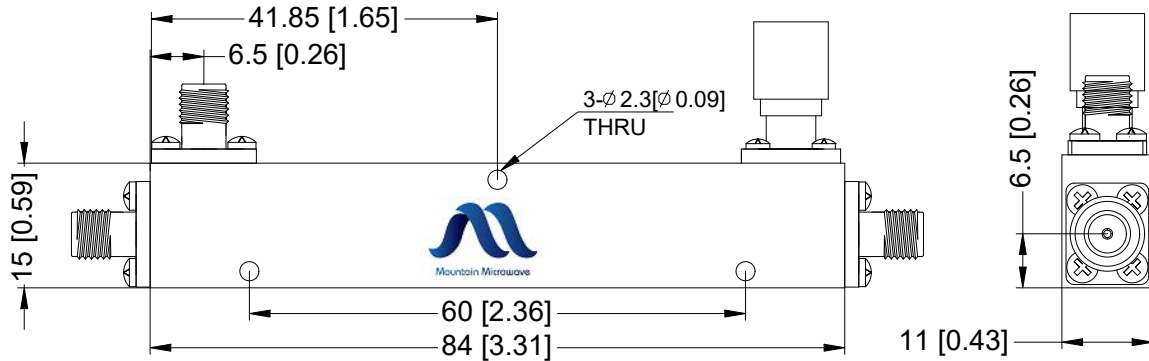
Directional Coupler

MM-BDC-010500-20

1.0-50.0 GHz, 20 dB, 2.4mm Female

Outline Drawing:

mm(inch)



Environmental Conditions:

| Parameter | Standard | Description |
|-------------------------|-------------------------------------|-------------------------------|
| Operational Temperature | | -45°C~+85°C |
| Storage Temperature | | -55°C~+125°C |
| Random Vibration | MIL-STD-883K, Method 2026, Cond. IB | 50 - 2000 Hz, 7.3 Grms |
| Humidity | MIL-STD-202, Method 103B, Cond. B | 100% RH at 35c, 95%RH at 40°C |
| Altitude | MIL-STD-883K, Method 1001, Cond. C | 50,000 feet |

Please note, all information contained in this data sheet is subject to change without notice.

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