



Mountain Microwave

Focus on the future Directional Coupler

MM-BDC-010400-20

1.0-40.0 GHz, 20 dB, 2.92mm-Female

General Description:

MM-BDC-010400-20 is a 1.0 GHz to 40.0 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: 1.0-40.0 GHz
- Low Insertion Loss
- Flat Coupling Level

Applications:

- Radar Systems
- Communication Systems
- Receivers Systems

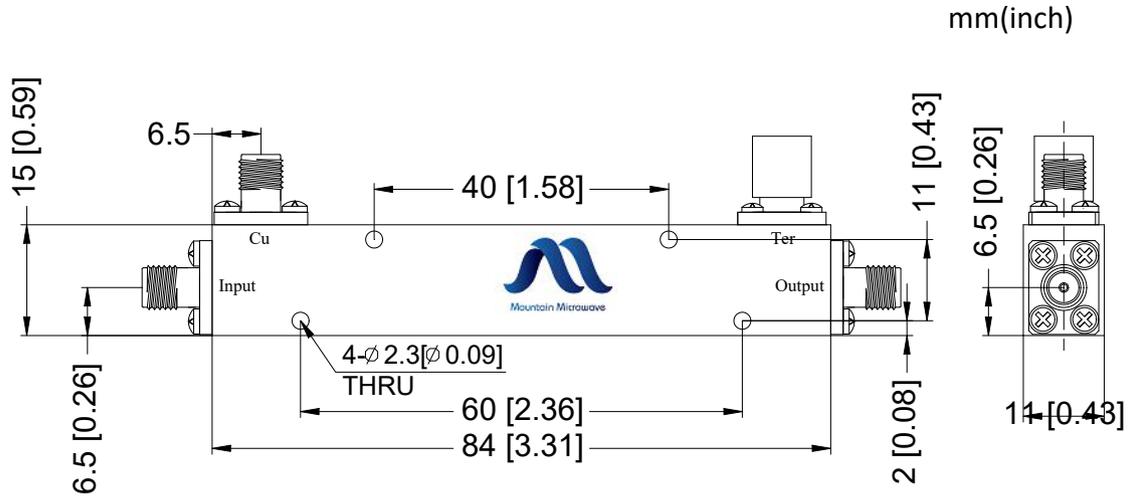
Electrical Specifications :

Parameter	Value			Units
	Min	Typ	Max	
Frequency Range	1.0		40.0	GHz
Coupling		20 ± 1.2		dB
Insertion Loss			2.1	dB
VSWR			1.7	:1
Directivity	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	2.92mm Female

Outline Drawing:



Environmental Conditions:

Parameter	Standard	Description
Operational Temperature		-45 ~+85
Storage Temperature		-55 ~+125
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
Altitude	MIL-STD-883K, Method 1001, Cond. C	50,000 feet