

## **Directional Coupler**

## C20103 1 – 3 GHz 20 dB Directional Coupler

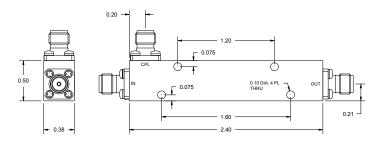
## **FEATURES**

- ❖ Low VSWR
- High Directivity
- Low Insertion Loss
- ❖ Small Package





1 – 3 GHz 20 dB Directional Coupler	
Model Number	C20103
Frequency Range	1 – 3 GHz
Coupling Value	20 $\pm$ 1 dB Max.
Frequency Flatness	$\pm$ 0.35 dB Typ., $\pm$ 0.45 dB Max.
Insertion Loss (excluding coupled power)	0.30 dB Typ., 0.40 dB Max.
Directivity	25 dB Typ., 22 dB Max.
Main Line Input VSWR	1.10:1 Typ., 1.20:1 Max.
Main Line Output VSWR	1.10:1 Typ., 1.20:1 Max.
Input Power Handling	50 W CW Max.
Impedance	50Ω
Connector Type	SMA Female (other options available on request)



Design to meet the following environmental specifications: (verification optional)

- 1. Operating Temp: -55°C to +85°C
- 2. Storage Temp: -65°C to +125°C
- 3. Shock: MIL-STD-202F, M213, Cond B
- 4. Altitude: MIL-STD-202F, M105, Cond B
- 5. Vibration: MIL-STD-202F, M204, Cond B
- 6. Thermal Shock: MIL-STD-202F, M107, Cond A
- 7. Temp. Cycle: MIL-STD-202F, M105C, Cond D
- 8. Humidity: MIL-STD-202F, M103, Cond B (Optional with Hysol epoxy seal)

Standard Finishing: Rugged Aluminum Housing, optional finishing with blue epoxy paint per MIL-C-22750 available on request.

## Note:

- 1. Coupling refers to the input port
- 2. Standard connector is SMA female for all the ports
- 3. Other connector combination is available on request
- Power handling is under the condition that all the outputs are connected to the loads with 1.25:1 or better VSWR and the unit is mounted with excellent heat sink