



### C30103 1 – 3 GHz 30 dB Directional Coupler

#### FEATURES

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



#### SPECIFICATIONS

<b>1 – 3 GHz 30 dB Directional Coupler</b>	
Model Number	C30103
Frequency Range	1 – 3 GHz
Coupling Value	30 ± 1 dB Max.
Frequency Flatness	±0.50 dB Typ., ±0.70 dB Max.
Insertion Loss (excluding coupled power)	0.30 dB Typ., 0.40 dB Max.
Directivity	25 dB Typ., 21 dB Max.
Main Line Input VSWR	1.10:1 Typ., 1.25:1 Max.
Main Line Output VSWR	1.10:1 Typ., 1.25:1 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
4. 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

