

## HQ5001 0.5 - 1 GHz 3 dB 90° Hybrid

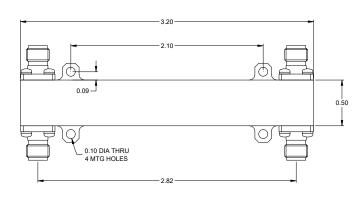
## **FEATURES**

- Low VSWR
- Low Insertion Loss
- High Isolation
- Excellent Amplitude & Phase Tracking

### **SPECIFICATIONS**



0.5 – 1 GHz 3 dB 90° Hybrid	
Model Number	HQ5001
Frequency Range	0.5 – 1 GHz
Insertion Loss	0.17 dB Typ., 0.25 dB Max.
Isolation	28 dB Typ., 25 dB Min.
Input VSWR	1.08:1 Typ., 1.15:1 Max.
Output VSWR	1.08:1 Typ., 1.15:1 Max.
Amplitude Balance	$\pm$ 0.40 dB Typ., $\pm$ 0.50 dB Max.
Phase Balance	$\pm$ 0.5° Typ., $\pm$ 1° Max.
Power Handling	80 W CW
Impedance	50Ω
Connector Type	SMA Female





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

Housing: Rugged Conductive Aluminum Housing Connector Housing: Passivated Stainless Steel Connector Center PIN: Beryllium copper, Gold plated

#### Note:

- 1. Insertion loss refers to the sum of the output power to the input power
- 2. The amplitude balance is the path loss variation over the average value of both paths
- 3. Other connector combination is available on request
- Power handling is under the condition that all the outputs are connected to the loads with1.25:1 or better VSWR and the unit is mounted with excellent heat sink

# 90° Hybrid