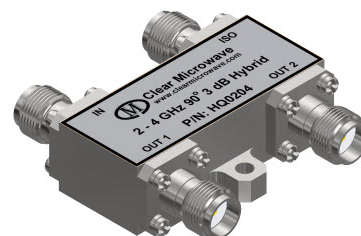




HQ7242 2.7 – 4.2 GHz 3 dB 90° Hybrid

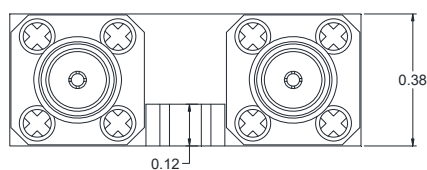
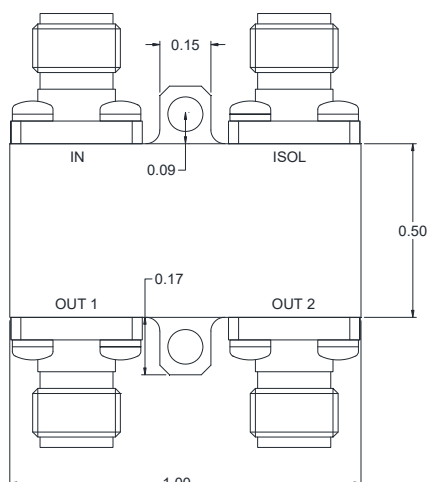
FEATURES

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



SPECIFICATIONS

| 2.7 – 4.2 GHz 3 dB 90° Hybrid | |
|--------------------------------------|------------------------------|
| Model Number | HQ7242 |
| Frequency Range | 2.7 – 4.2 GHz |
| Insertion Loss | 0.15 dB Typ., 0.25 dB Max. |
| Isolation | 20 dB Typ., 18 dB Min. |
| Input VSWR | 1.20:1 Typ., 1.30:1 Max. |
| Output VSWR | 1.20:1 Typ., 1.30:1 Max. |
| Amplitude Balance | ±0.25 dB Typ., ±0.35 dB Max. |
| Phase Balance | ±0.8° Typ., ±1.5° 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
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