



**HD1804 1.8 – 4 GHz 3 dB 180° Hybrid**

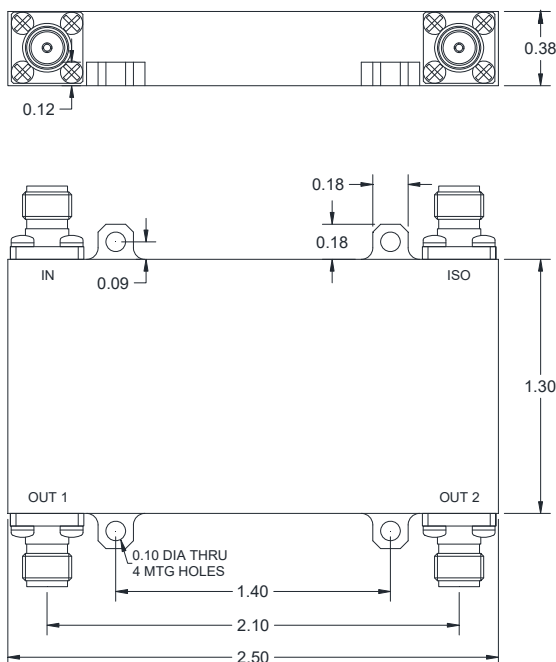
**FEATURES**

- ❖ Low VSWR
- ❖ High Isolation
- ❖ Small Package
- ❖ Light Weight



**SPECIFICATIONS**

| <b>1.8 – 4 GHz 3 dB 180° Hybrid</b> |  |
|-------------------------------------|--|
| Model Number                        | HD1804                                     |
| Frequency Range                     | 1.8 – 4 GHz                                |
| Insertion Loss                      | 0.50 dB Typ., 0.70 dB Max.                 |
| Isolation                           | 25 dB Typ., 20 dB Min.                     |
| Input VSWR                          | 1.15:1 Typ., 1.30:1 Max.                   |
| Output VSWR                         | 1.15:1 Typ., 1.30:1 Max.                   |
| Amplitude Balance                   | ±0.15 dB Typ., ±0.30 dB Max.               |
| Phase Balance                       | ±2° Typ., ±4° Max.                         |
| Power Handling as Divider           | 100 W CW Max.                              |
| Impedance                           | 50 Ω                                       |
| Connector Type                      | SMA (other connector 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**

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. 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