



HD1224T 12 – 24 GHz 3 dB 180° Internal Terminated 3-Port Hybrid

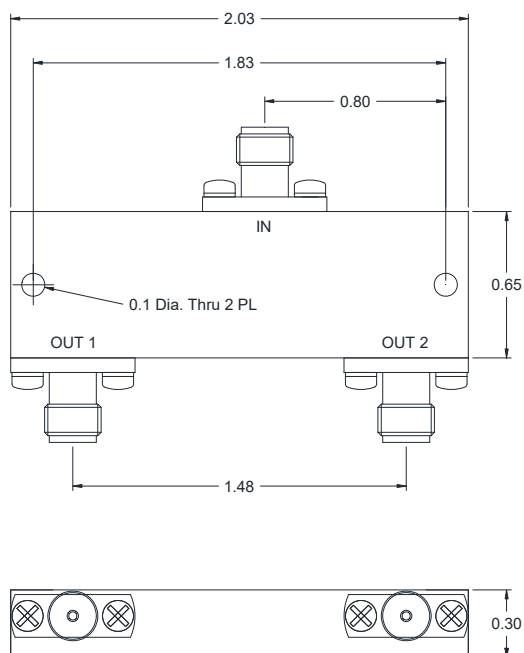
FEATURES

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



SPECIFICATIONS

12 – 24 GHz 3 dB 180° Internal Terminated 3-Port Hybrid	
Model Number	HD1224T
Frequency Range	12 – 24 GHz
Insertion Loss	1.2 dB Typ., 1.5 dB Max. (Note 1)
Isolation	17 dB Typ., 15 dB Min.
Input VSWR	1.60:1 Typ., 1.90:1 Max.
Output VSWR	1.60:1 Typ., 1.90:1 Max.
Amplitude Balance	±0.3 dB Typ., ±0.5 dB Max. (Note 2)
Phase Balance	±5.0° Typ., ±8.0° Max.
Power Handling as Divider	0.5 W CW
Impedance	50 Ω
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. Deviation from -3dB plus insertion loss
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