

## **90° Hybrid Coupler**

### **GHHC90S-1-2G**

#### **Applications**

- . **Wireless Communications**
- . **SATCOM**
- . **Test and Measurement**
- . **Military Communications**
- . **Commercial Communications**

#### **Description**

The **GHHC90S-1-2G** is a high power 90 degree hybrid coupler that operates from 1 to 2 GHz and can handle up to 50 Watts(CW) with 20 dB isolation minimum and 1.30:1 VSWR maximum. The package interface uses SMA female connectors, and REACH and RoHS compliant.

Hybrids Couplers featuring broad bandwidths together with tight amplitude imbalances and phase imbalance specifications. Signal splitters, combiners, balanced mixers, image-rejection mixers, phase shifters, diplexers, switches, and antenna beam-forming networks are all functions of hybrid couplers that are employed in a variety of commercial and military applications.

For various applications, including as commercial wireless, SATCOM, radar, signal monitoring and measuring, antenna beam shaping, and EMC testing conditions, these couplers offer straightforward solutions.

#### **Function**

- .High Isolation
- .High Power
- .90° Hybrid Coupler

## Electrical Specifications

|                           |                        |
|---------------------------|------------------------|
| Model                     | <b>GHHC90S-1-2G</b>    |
| Frequency Range (GHz)     | 1 ~ 2                  |
| Insertion Loss (dB)       | ≤0.5                   |
| Amplitude balance(dB)     | ≤ ±0.5                 |
| Phase balance(Degree)     | ≤ 3                    |
| Isolation(dB)             | ≥20                    |
| VSWR                      | ≤1.30 : 1              |
| Power Handling(Watt)      | ≤50 (AVG)<br>≤2k(Peak) |
| Operating Temperature(°C) | -25 ~ +65              |
| Impedance                 | 50Ω                    |
| Port Connectors           | SMA–Female             |
| Surface Color             | Black Paint (Options)  |
| Outline Drawing           | As Below               |

