

## **Directional Coupler**

### **GHDC10S-7-12.4G**

#### **Applications**

- . **Wireless Communications**
- . **SATCOM**
- . **Test and Measurement**
- . **Military Communications**
- . **Commercial Communications**
- . **including as electronic warfare (EW)**

#### **Description**

The **GHDC10S-7-12.4G** is a 10dB directional coupler that operates from 7 to 12.4GHz and can handle up to 50 Watts(CW)with 18 dB directivity minimum and 1.40:1 VSWR maximum.

Couplers are specifically developed for system applications that require external leveling, accurate monitoring, signal mixing, or swept transmission and reflection measurements.

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

#### **Function**

- .Low insertion loss and VSWR.
- .They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling,VSWR measurements,power combining and distribution.

## Electrical Specifications

|                           |                         |
|---------------------------|-------------------------|
| Model                     | <b>GHDC10S-7-12.4G</b>  |
| Frequency Range (GHz)     | 7 ~ 12.4                |
| Coupling (dB)             | 10±0.75                 |
| Frequency Sensitivity(dB) | ≤±0.6                   |
| Directivity(dB)           | ≥18                     |
| Insertion Loss (dB)       | ≤1.0                    |
| VSWR                      | ≤1.4 : 1                |
| Power Handling(Watt)      | ≤50 Ave.<br>≤1000 Peak. |
| Operating Temperature(°C) | -55 ~ +85               |
| Impedance                 | 50Ω                     |
| Port Connectors           | SMA-Female              |
| Surface Color             | Black Paint             |
| Outline Drawing           | As Below                |

