

## **Directional Coupler**

### **GHDC20S-3-12.4G**

#### **Applications**

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

#### **Description**

The **GHDC20S-3-12.4G** is a 20dB directional coupler that operates from 3 to 12.4 GHz and can handle up to 50 Watts(CW)with 20 dB directivity minimum and 1.30:1 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>GHDC20S-3-12.4G</b>
Frequency Range (GHz)	3 ~ 12.4
Coupling (dB)	20±1.0
Frequency Sensitivity(dB)	≤ ± 1.0
Directivity(dB)	≥ 20
Insertion Loss (dB)	≤0.5
VSWR	≤1.30 : 1
Power Handling(Watt)	≤50 (AVG) ≤1 KW (Peak)
Operating Temperature(°C)	-25 ~ +65
Impedance	50Ω
Port Connectors	Input&Coupling: SMA-Female Output: SMA-Female
Surface Color	Black Paint (Options)
Outline Drawing	As Below

