

Directional Coupler

GHDC30S-2-18G

Applications

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

Description

The **GHDC30S-2-18G** is a 30dB directional coupler that operates from 2 to 18GHz and can handle up to 50 Watts(CW) with $\geq 13\text{dB}@2-12.4\text{GHz}$ and $\geq 10\text{dB}@12.4-18\text{GHz}$ directivity minimum and 1.50:1 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	GHDC30S-2-18G
Frequency Range (GHz)	2 ~ 18
Coupling (dB)	30±1.25
Frequency Sensitivity(dB)	≤±1.0
Directivity(dB)	≥13@2-12.4GHz ≥10@12.4-18GHz
Insertion Loss (dB)	≤0.8
VSWR	≤1.50 : 1
Power Handling(Watt)	≤50 Ave. ≤1000 Peak.
Operating Temperature(°C)	-25 ~ +65
Impedance	50Ω
Port Connectors	SMA-Female
Surface Color	Black Paint
Outline Drawing	As Below

