

Directional Coupler

GHDC30S-2-18G

Applications

. Wireless Communications	. Military Communications
. SATCOM	. Commercial Communications
. Test and Measurement	. 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 **≥13dB@2-12.4GHz** and **≥10dB@12.4-18GHz** 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	

