

Directional Coupler

GHDC10S-7-12.4G

Applications

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

Description

The **GHDC10S-7-12.4G** is a 10dB directional coupler that operates from 7 to 12.4 GHz and can handle up to 50 Watts(CW)with 18 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	GHDC10S-7-12.4G
Frequency Range (GHz)	7 ~ 12.4
Coupling (dB)	10±0.75
Frequency Sensitivity(dB)	≤ ±0.4
Directivity(dB)	≥ 18
Insertion Loss (dB)	≤ 0.4 (Exclude coupled power)
VSWR	≤1.30 : 1
Power Handling(Watt)	≤50 (AVG) <10 (Reflected Power) <4000 (Peak)
Operating Temperature(°C)	-25 ~ +65
Impedance	50Ω
Port Connectors	SMA-Female
Surface Color	Black Paint (Options)
Outline Drawing	As Below

