

90° Hybrid Coupler

GHHC90S-4-12.4G

Applications

- . **Wireless Communications**
- . **Military Communications**
- . **SATCOM**
- . **Commercial Communications**
- . **Test and Measurement**

Description

The **GHHC90S-4-12.4G** is a high power 90 degree hybrid coupler that operates from 4 to 12.4GHz and can handle up to 20 Watts(CW) with 15 dB isolation minimum and 1.60:1 VSWR maximum. The package interface uses SMA female connectors, and REACH and RoHS compliant.

Hybrids Couplers featuring broad bandwidths together with tight amplitude imbalances and phase imbalance specifications. Signal splitters, combiners, balanced mixers, image-rejection mixers, phase shifters, diplexers, switches, and antenna beam-forming networks are all functions of hybrid couplers that are employed in a variety of commercial and military applications.

For various applications, including as commercial wireless, SATCOM, radar, signal monitoring and measuring, antenna beam shaping, and E

MC testing conditions, these couplers offer straightforward solutions.

Function

- .High Isolation
- .High Power
- .90° Hybrid Coupler

Electrical Specifications

Model	GHHC90S-4-12.4G
Frequency Range (GHz)	4 ~ 12.4
Insertion Loss (dB)	≤ 1.6
Amplitude balance(dB)	$\leq \pm 0.7$
Phase balance(Degree)	≤ 8
Isolation(dB)	≥ 15
VSWR	$\leq 1.60 : 1$
Power Handling(Watt)	≤ 20 (AVG) $\leq 1k$ (Peak)
Operating Temperature($^{\circ}\text{C}$)	-25 ~ +65
Impedance	50 Ω
Port Connectors	SMA–Female
Surface Color	Black Paint (Options)
Outline Drawing	As Below

