

**GHDS20-9-10G****Applications**

- Radar Systems                      • Military                                      • R&D Labs
- Telecom Infrastructure      • Communication Systems • Wireless Radio Systems
- Microwave Radio Systems

**Description**

Goghel carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1).

The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The GHDS20-9-10G is a single junction circulator that operates from 9 to 10GHz and can handle up to 2 Watts (CW) in the forward direction. The drop in Tab uses **Soldering Tab** on all ports and has electrical specifications of 1.2:1 max VSWR, 20dB min isolation and 0.3 dB max insertion loss.

The package is RoHS compliant.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	9		10	GHz
Isolation			20	dB
Insertion Loss			0.3	dB
VSWR			1.2: 1	
Forward Power, CW		2		Watts
Reverser Power, CW	/	/	/	Watts
Impedance		50		Ohms
Operating Temp	-50		85	°C

**Mechanical Specifications**

## Size

Length	0.433 in[ 11 mm]
Width	0.316 in[ 8 mm]
Height	0.197 in[ 5 mm]

**Configuration**

Design	Single Junction
Package Style	Tab
Connector 1	Tab
Connector 2	Tab
Connector 3	Tab

**CAD Drawing**

Circulator With 20dB Isolation From 9 GHz to 10 GHz 2 Watts And Tab

