

**GHDN13-1.98-2.31G****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 GHDN13-1.98-2.31G is a single junction circulator that operates from 1.98 to 2.31 GHz and can handle up to 10 Watts (CW) in the forward direction.

The drop in Tab uses **Soldering Tab** on all ports and has electrical specifications of 1.25:1 max VSWR, 19dB min isolation and 0.4 dB max insertion loss.

The cavity meets the requirements of the soldering process, with a maximum temperature resistance of 200°C.

The package is RoHS compliant.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.98		2.31	GHz
Isolation			19	dB
Insertion Loss			0.4	dB
VSWR			1.25: 1	
Forward Power, CW		10		Watts
Reverser Power, CW		10		Watts
Impedance		50		Ohms
Operating Temp	-55		85	°C

**Mechanical Specifications**

## Size

Length	0.374	in[ 9.5 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 19dB Isolation From 1.98GHz to 2.31 GHz 10 Watts And Tab

