GPHS127127D-5-5.1G

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.

TheGPHS127127D-5-5.1 is a single junction circulator that operates from 8.5 to 9.7GHz and can handle up to 300 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	5		5.1	GHz
Isolation			23	dB
Insertion Loss			0.2	dB
VSWR			1.15： 1	
Forward Power,CW		100		Watts
Reverser Power, CW	/	/	/	Watts
Impedance		50		Ohms
Operating Temp	-55		85	℃

Mechanical Specifications

Size	
Length	0.5 in [12.7 mm]
Width	0.5 in [12.7 mm]
Height	0.248 in [6.3 mm]

Configuration

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

CAD Drawing

Circulator With 23dB Isolation From 5 GHZ to 5.1 GHz 100Watts And Tab