



## 6-18 GHz Circulator

### Description

A circulator is a 3 port non-reciprocal passive RF device that allows unidirectional signal transmission while preventing signal flow in the reverse direction. A single junction circulator packaged in a ruggedized Kovar package. Three female SMA connector allow for easy hook up. 10-watt (CW) power handling capability.

### Features

- Hermetic Package
- SMA Connector (18 GHz)
- Flat Performance
- Low loss
- Ruggedized design.
- Frequency Stable over temperature
- 10 Watt (CW) power handling
- 10 dB Minimum Isolation



### Applications

- Measurement
- Radar
- Antenna arrays

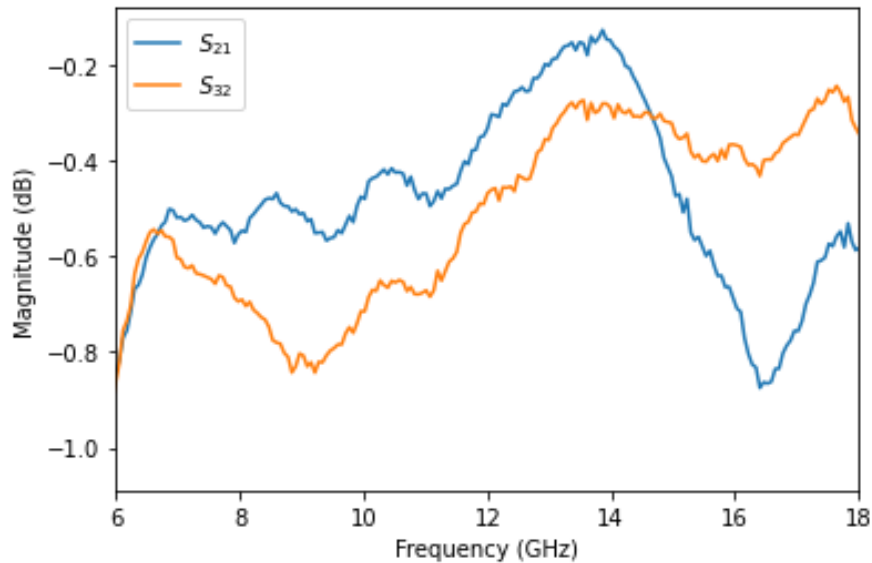
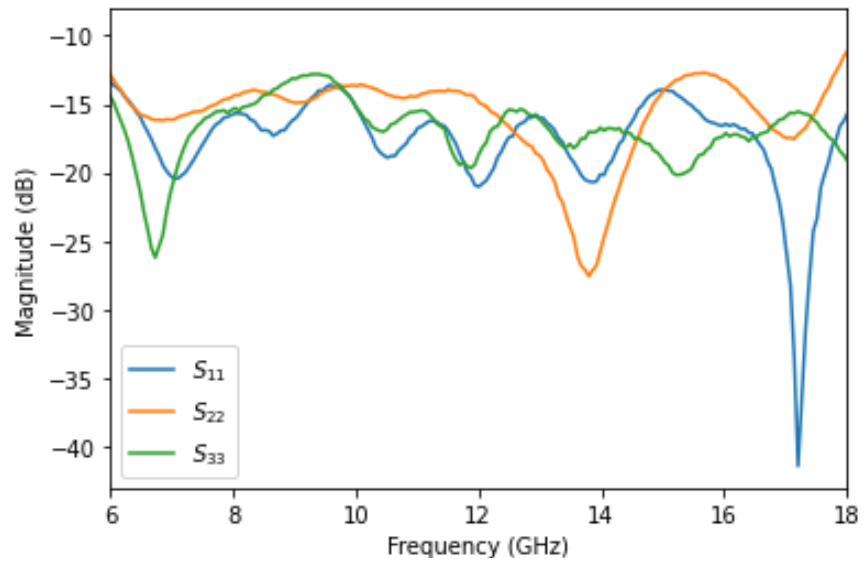


**Electrical Specifications ( $T_{op} 23 \pm 3^{\circ}C$ , unless otherwise specified)**

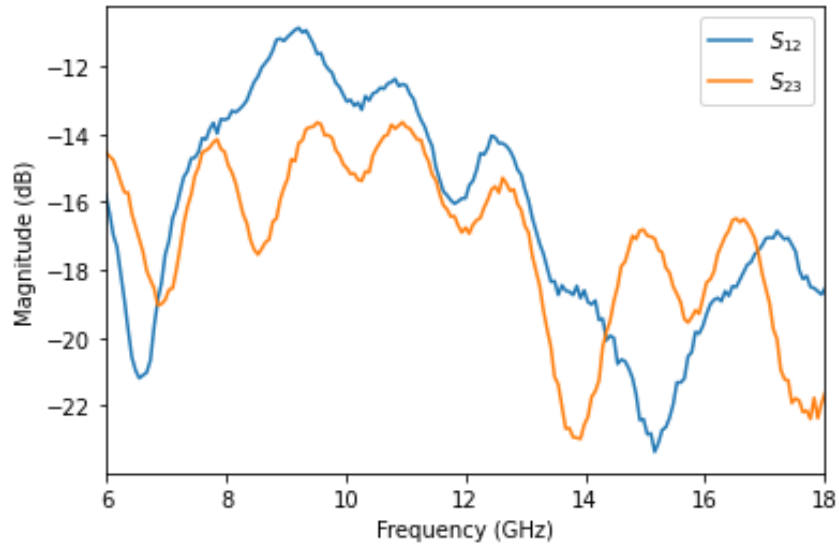
Parameter	Min.	Typ.	Max.	Unit	Test Conditions
Return Loss	13	15		dB	6-18 GHz
Insertion Loss		1		dB	6-18 GHz
Isolation	10	15		dB	6-18 GHz

Typical Electrical Specifications. Insertion loss may vary up to +/- 0.5 dB

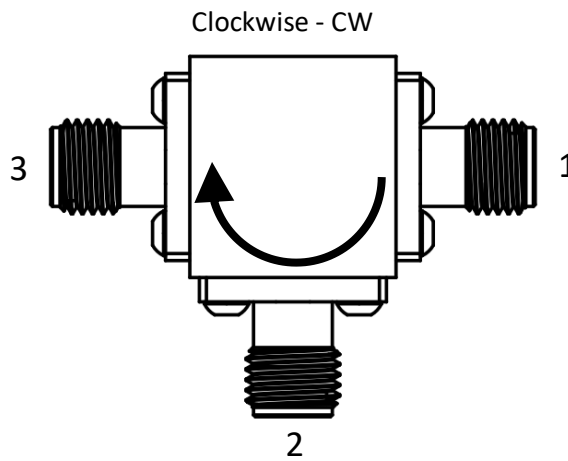
**Typical Measured Performance** - Performance may vary device to device



**Isolation Performance:**



**Current Direction**



**Device Dimensions**

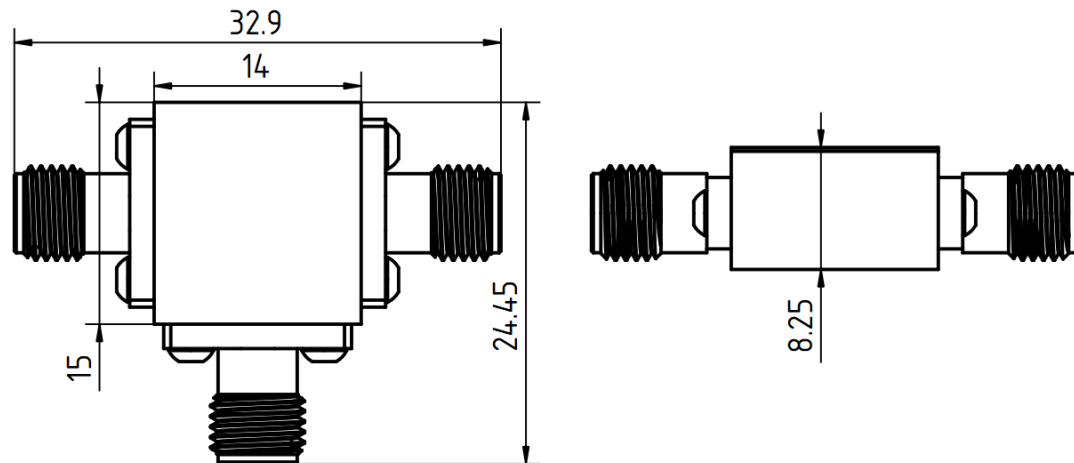
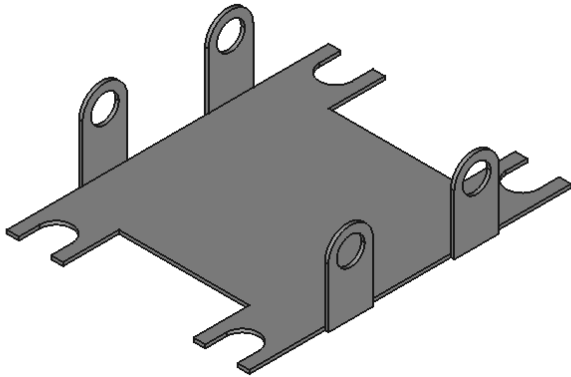
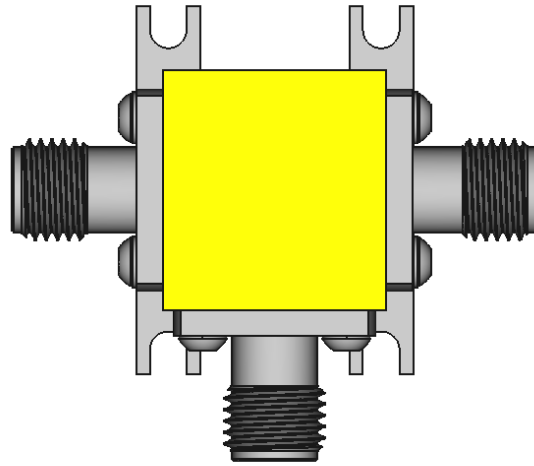


Figure 1. All units in mm. Manufactured device sizes may differ.

**Optional Mount:** If is desirable to mechanically fix the device in place. An optional Mount can be added to the device.



(a) Mount



(b) Mount on the device

#### Inquiry Information

**Sales:** All inquiries regarding sales please contact [Sales@NuPhotonics.com](mailto:Sales@NuPhotonics.com)

**General:** If you are interested in a custom solution, general information, or engineering related information please contact [Inquiry@NuPhotonics.com](mailto:Inquiry@NuPhotonics.com)



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