



DC-45 GHz Power Divider

Description

A resistive power divider built onto a low loss ceramic substrate hermetically packaged in a Kovar body. This is ideal for applications that want a small package and broadband operation that offers flat performance that is critical for success.

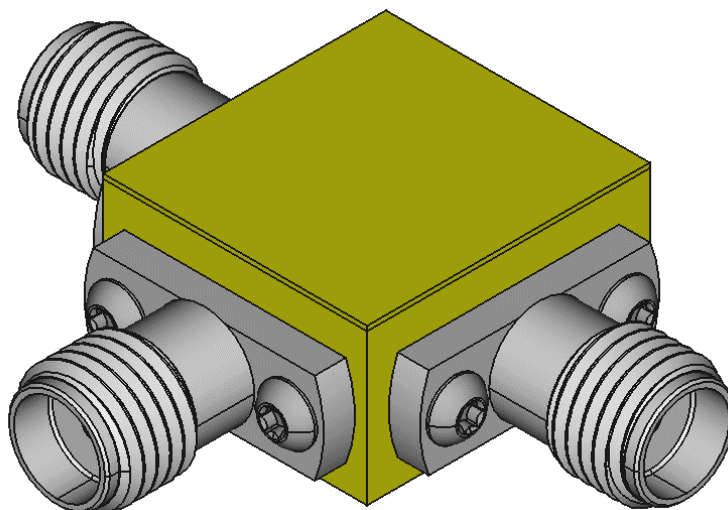
Features

- Hermetic Package
- Field replaceable 2.4 mm connector
- Flat Performance
- Low loss
- Ruggedized design.
- Frequency Stable over temperature



Applications

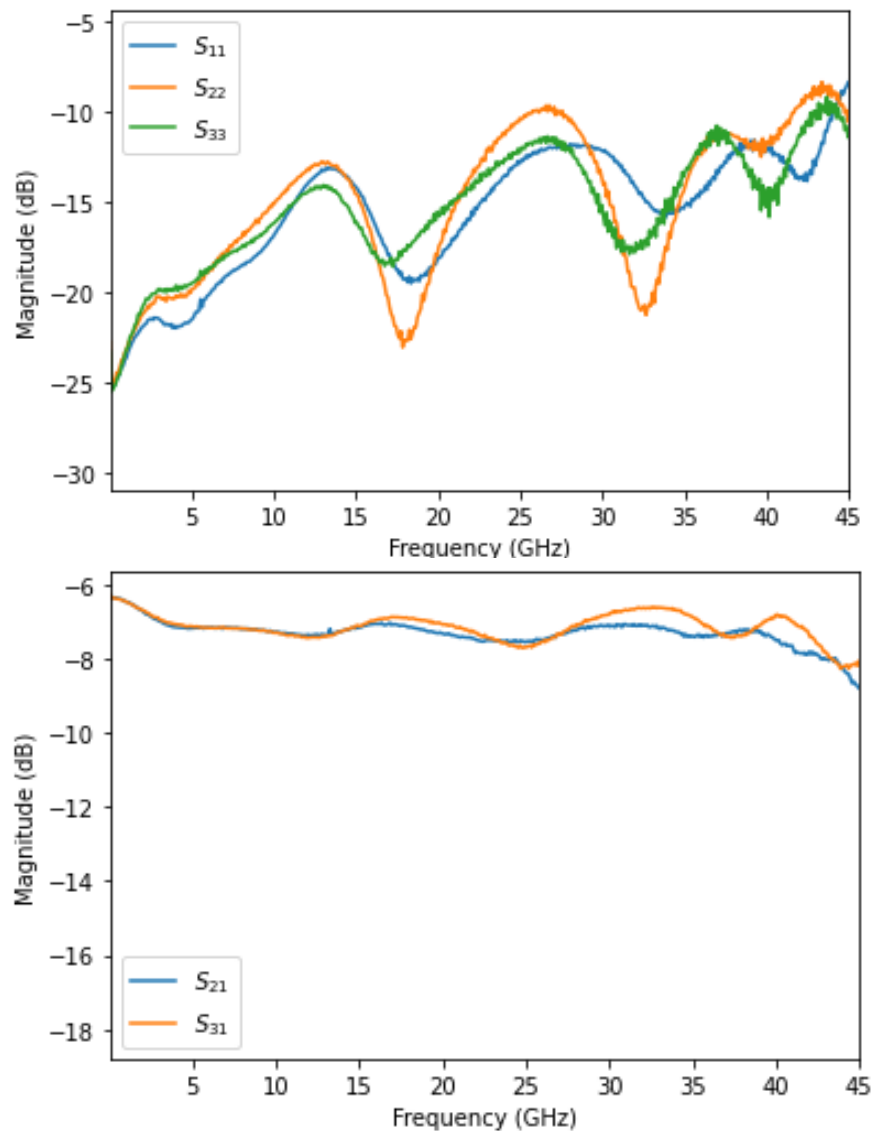
- Measurement
- Radar
- Antenna arrays



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

Parameter	Min.	Typ.	Max.	Unit	Test Conditions
Nominal Power Splitting		6		dB	
Excess Insertion Loss		0.8		dB	
Isolation		7		dB	Equivalent to Insertion Loss
Return Loss	13	20	70	dB	DC- 30 GHz
	10	15			30-45 GHz

Typical Electrical Specifications. Insertion loss may vary up to ± 0.5 dB

Typical Measured Performance

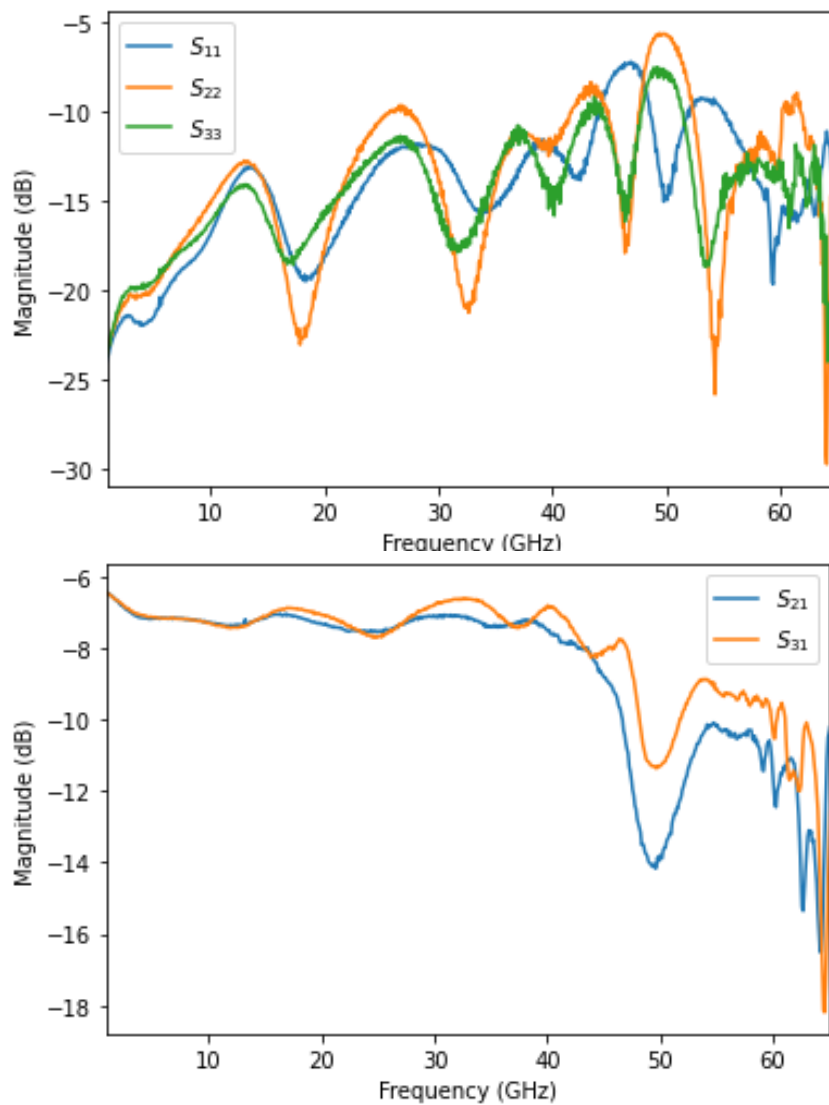
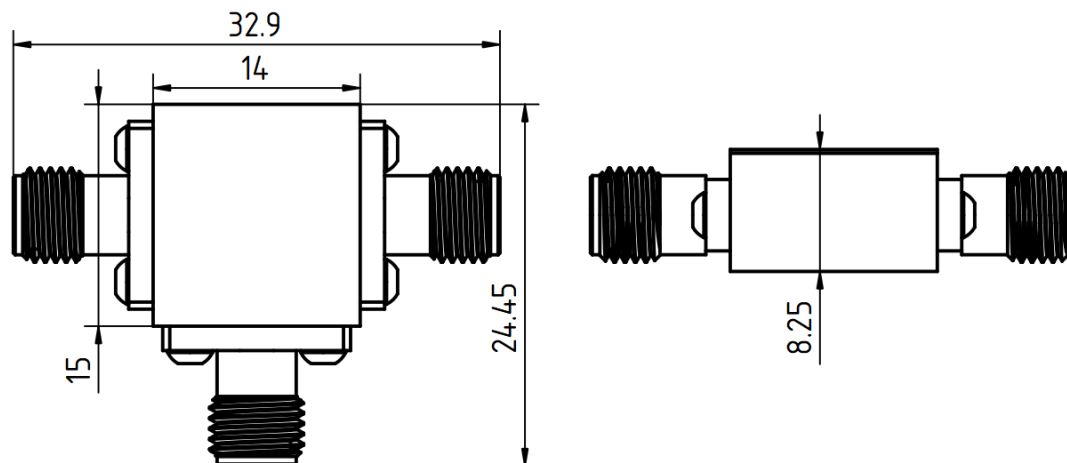
Extended Measurement Data: 1.85mm connector build.**Device Dimensions**

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



Inquiry Information

Sales: All inquiries regarding sales please contact Sales@NuPhotonics.com

General: If you are interested in a custom solution, general information, or engineering related information please contact Inquiry@NuPhotonics.com



IMPORTANT NOTICES AND DISCLAIMERS

Warranty: NUPHOTONICS PROVIDES ALL OF THE INFORMATION ON TECHNICAL AND RELIABILITY DATA. THIS INCLUDES INFORMATION PRESENTED IN DATA SHEETS, DESIGN FILES, APPLICATIONS, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD-PARTY INTELLECTUAL PROPERTY RIGHTS.

The information and resources are presented and intended for developers that are skilled and adequately qualified to work with this technology. You, the customer, are solely responsible for and accept full responsibility for selecting the appropriate NuPhotonics devices for your application. You accept the sole responsibility of designing, validating, and testing your application. You bear all responsibility for your application meeting standards, safety, security, and other regulatory requirements.

NuPhotonics retains the right to change these resources without notice. All rights are reserved for NuPhotonics. NuPhotonics grants you permission to use the information in these resources to design with NuPhotonics devices. Reproduction and display of these resources is prohibited. No Third-party licenses are offered. You will fully indemnify NuPhotonics against any claims, damages, costs, losses, and liabilities that arise from you using these resources.

NuPhotonics does not accept and objects to any terms you have proposed.

For terms and conditions for all NuPhotonics products please refer to www.nuphotonics.com Legal section.

Definitions: Product State

Alpha Build: Devices in Alpha build are in internal engineering build and testing stages. Major changes may happen for production build.

Beta Build: Devices in Beta build are for external customer and engineering sample testing stages. Minor changes may happen for production build.

Production Build: Customer ready devices. Small appearance changes may occur between devices.

Obsolete: Currently not supported.