

Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

Tel.: +49 - (0)81 41 - 52 71-0

E-Mail: sales@meilhaus.com

Meilhaus Electronic GmbH Am Sonnenlicht 2

 Am Sonnenlicht 2
 Tel. +49 - (0)81 41 - 52 71-0 E

 82239 Alling/Germany
 Mail sales@meilhaus.com

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50 Ω General Purpose VSWR Bridge

1 Introduction

The TBSWR-300K6000 VSWR - bridge is designed for general purpose forward / reverse power measurements. The bridge combines the wide frequency range and directivity of a directional bridge and the low insertion loss of a directional coupler.

The TBSWR-300K6000 is characterized in the frequency range from 300 kHz to 6 GHz. The low insertion loss allows inline RF power measurements, and a variety of other applications. The insertion loss over the frequency range is typically between 1.7 and 2.6 dB, which is significantly smaller than the average 7 dB associated with VSWR - bridges.



2 Typical data

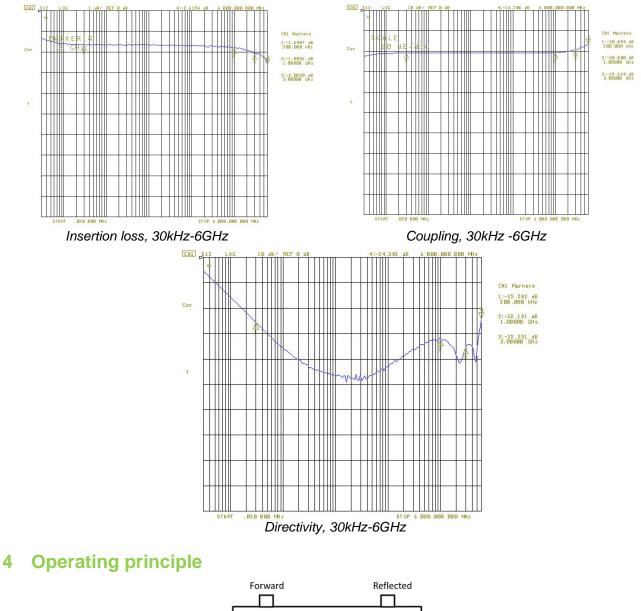
Characterized frequency range:		300 kHz – 6 GHz				
Directivity:	300 kHz – 700 kHz 700 kHz – 5 GHz 5 GHz – 6 GHz	> 25 dB > 30 dB > 20 dB	Coupling:	300 kHz – 3 GHz 3 GHz – 6 GHz	-20 dB ± 1 dB - 19 dB16 dB	
Insertion loss:	300 kHz – 1 GHz 1 GHz – 6 GHz	< 1.8 dB < 2.6 dB	Max. power:	300 kHz – 6 GHz *) Output shorted or op	4 W CW *) ben: max. 1 W	
Operating temperature range:		- 20 °C to + 40 °C				
Impedance:		50 Ω				
Port matching:		> 20 dB				
RF connectors:		SMA-female				
Dimensions:		170 mm x 40 mm x 32 mm				
Weight:		280 g RŏHS				

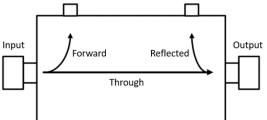




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3 Measurement Plots





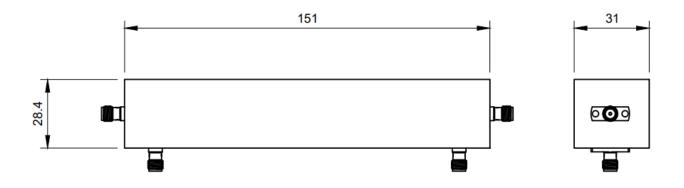
The ports Input/Output and Forward/Reflected can be exchanged. However, directivity may deviate from the documented values.





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5 Mechanical Drawing



6 Ordering Information

Part Number	Description
TBSWR-300K6000	VSWR – Bridge, 300 kHz – 6 GHz, wooden box

7 History

Version	Date	Author	Changes	
V1.0	20.11.2023	Mayerhofer	Creation of the document	