

# BSDU-1X32ER

1X32 Bidirectional Signal Distribution 350 MHz ... 6000 MHz

## Features

- wideband
- GSM, UMTS, LTE, 5G
- Wi-Fi IEEE 802.11 a/h,ac,b,g,n,p
- Up to 20 W RF power at COM port

## Applications

- Wired test
- Base station distribution
- Access Point distribution
- Product validation
- End of Line mass testing

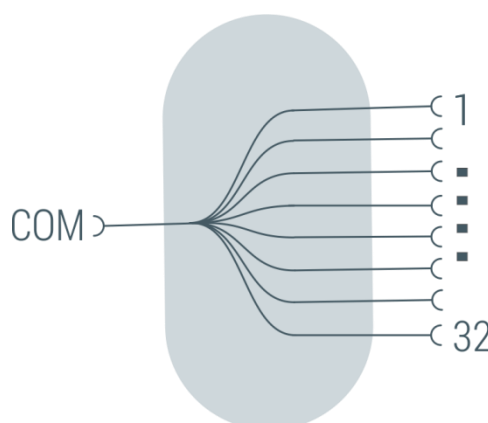


## At a Glance

The BSDU-1X32ER is a bidirectional, wideband 1X32 signal distribution / combiner unit for the frequency range 350 MHz...6000 MHz and therefore suitable for all cellular radio and wireless network applications in FR1 (frequency range 1, < 6 GHz).

With help of the BSDU-1X32ER one base station, communication tester or Wi-Fi access point can be connected with up to 32 test units via RF cables. The transmission via RF cables avoids influences of radio fields during testing coming from the environment and thereby enables reproducible tests. The high out-to-out isolation reduces the mutual influence of adjacent test units.

## Principle diagram



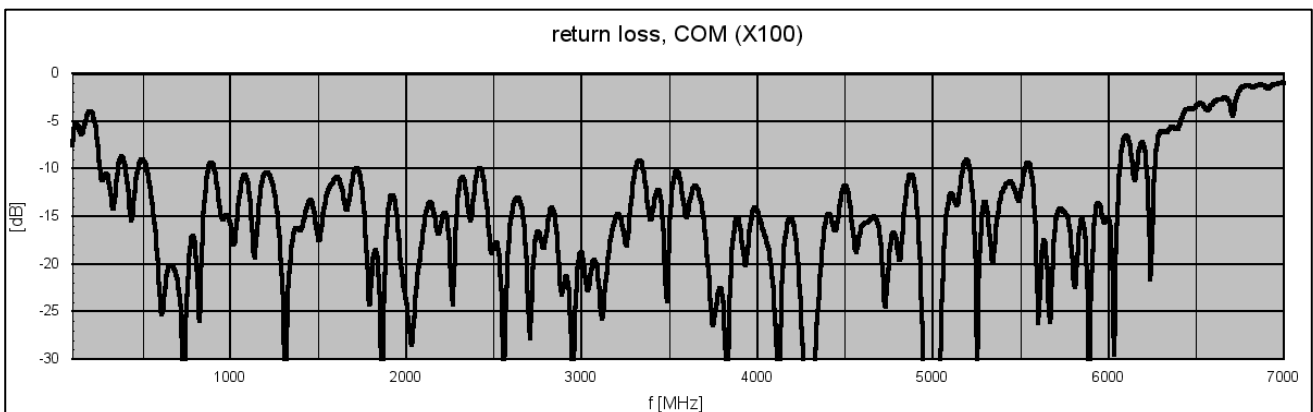
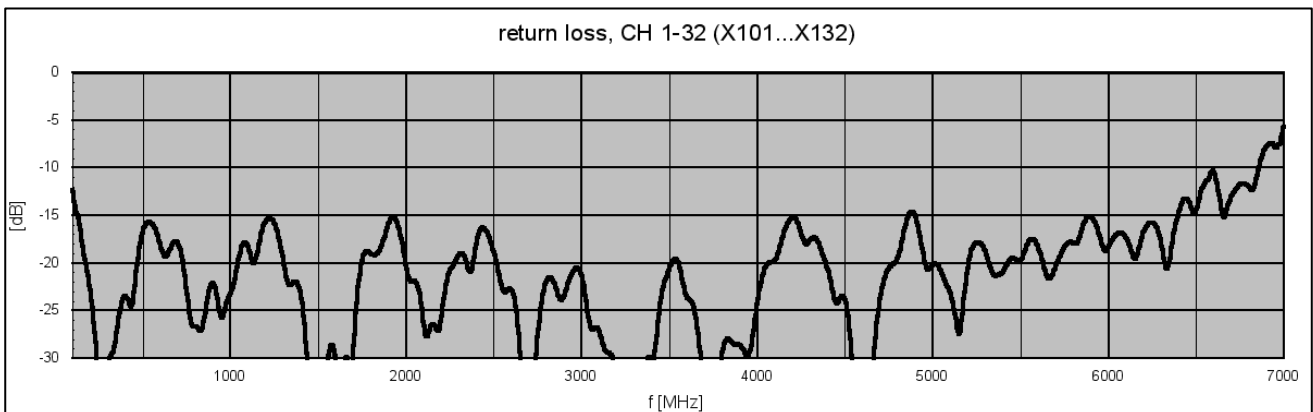
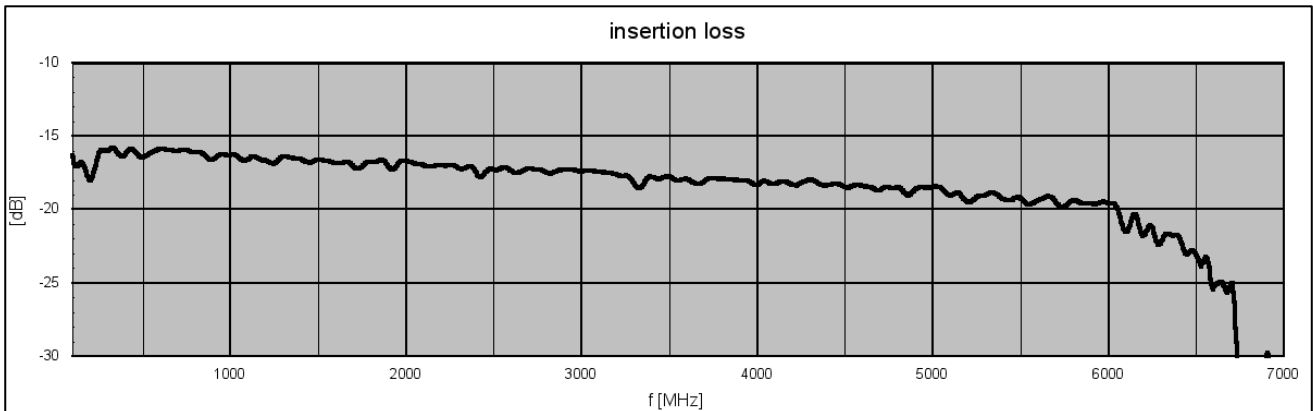
## RF Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
impedance	$Z_{in} / Z_{out}$		50		Ohm	
low frequency	$f_{min}$		300	350	MHz	
high frequency	$f_{max}$	6000			MHz	
configuration	$n \times m$	1X32				
connector type	$X_{RF}$	SMA female				
insertion loss	$S_{21}, S_{12}$	-18	-16	-15	dB	$f = 1 \text{ GHz}$
	$S_{21}, S_{12}$	-19	-17	-16	dB	$f = 2 \text{ GHz}$
	$S_{21}, S_{12}$	-20	-18	-16	dB	$f = 4 \text{ GHz}$
	$S_{21}, S_{12}$	-21	-19	-17	dB	$f = 6 \text{ GHz}$
COM port return loss	$S_{11}$	-8	-13		dB	
RF1...RF32 return loss	$S_{22}$	-12	-18		dB	
DC voltage	$U_{DC}$			20 V	dBm	all ports are DC coupled
maximum input power	$P_{RF\SUM}$			+43	dBm	summary port
	$P_{RF1TO32}$			+33	dBm	ports 1...32

### Common Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
dimensions	W x H x D	approx. 515 x 150 x 450			mm	19", 3 U
weight			9.5		kg	
operating temp. range	$T_o$	+ 0		+ 50	°C	within specification
storage temp. range	$T_s$	- 40		+ 70	°C	
Ordering information	BSDU-1X32ER		P/N: 1705.6502.1			

### S-Parameters



## Appearances



Front view



Rear view

## Related Products

Product	Description	P/N
AIE-4X4R	4 Channel Air Interface Emulator 500 ... 3000 MHz	1201.4002.1
AIE-4X4ER	4 Channel Air Interface Emulator 400 ... 6000 MHz	1201.4902.1
AIE-W5ER	5 Port Air Interface Emulator 400 ... 6000 MHz	1309.4052.1
AIE-W9R	9 Port Air Interface Emulator 1800 ... 6400 MHz	1309.4092.1

