

## CFP Active L-Band Splitters

### Core Function Products Series



*The final product may vary from the above image depending on the options selected.*

#### Products:

<b>DEV 2161</b>	CFP 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
<b>DEV 2162</b>	CFP 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
<b>DEV 2165</b>	CFP 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)

#### Description

The DEV 2161, the DEV 2162, and the DEV 2165 are active Splitters for the Frequency Range 500...2300 MHz.

Each Product is equipped with a single Splitter with 4 Output Ports (DEV 2161), 8 Output Ports (DEV 2162), or 16 Output Ports (DEV 2165).

Optionally, the DEV 2161 and the DEV 2162 can be ordered with up to three additional Splitters; the DEV 2165 can be ordered with one additional Splitter.

Compared with DEV Standard Products, the Core Function Products provide the same superior RF Transmission Quality without certain Features such as integrated redundant Power Supplies, Monitoring Ports, RF Sensing, and other Alarm Functionality.

#### Features:

- ▀ Frequency Range 500...2300 MHz
- ▀ Compact 1 RU Chassis with up to two or four Splitters
- ▀ Each Splitter with switchable LNB Power

## Technical Data

<b>DEV 2161</b>	<b>CFP 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)</b>		
<b>DEV 2162</b>	<b>CFP 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)</b>		
<b>DEV 2165</b>	<b>CFP 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)</b>		
<b>Capacity</b>			
Number of Splitters	DEV 2161: 1...4	DEV 2162: 1...4	DEV 2165: 1...2
Number of Outputs per Splitter	DEV 2161: 4	DEV 2162: 8	DEV 2165: 16
<b>RF Specifications</b>			
Frequency Range	500...2300 MHz		
Impedance, Connectors	75 Ohm, precision F (f)		
Damage Level	120 dB $\mu$ V		
Nominal Input Level	100 dB $\mu$ V		
Return Loss	>14 dB (all Ports)		
Insertion Loss	DEV 2161: 0 $\pm$ 1.5 dB	DEV 2162: 0 $\pm$ 1.5 dB	DEV 2165: 3.5 $\pm$ 2 dB
Flatness	$\pm$ 1.0 dB (500...2300 MHz) $\pm$ 0.3 dB (in any 36 MHz Interval)		
Isolation between Output Ports	>25 dB (950...2150 MHz) >20 dB (700...2300 MHz) >15 dB (500...700 MHz)		
Outputs DC blocked	Yes		
OP1dB (Note 1)	DEV 2161: typ. 0 dBm	DEV 2162: typ. 0 dBm	DEV 2165: typ. 3 dBm
IM3 (Note 2)	>40 dBc @ 2000 MHz		
Noise Figure	<8 dB		
<b>LNB Power</b>			
LNB Power	17.5 $\pm$ 0.5 V; <350 mA per Input @ 30 °C; on/off switchable		
<b>External Power Supply</b>			
Primary Voltage	100...240 V AC		
Power Consumption	typ. <12 VA plus LNB Power		
<b>General Specifications</b>			
Size	19" (483 mm) Width, 1 RU (44 mm) Height, ~210 mm Depth		
Weight	~2.5 kg + 0.3 kg Power Supply		
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E		

Note 1: 0 dBm equal to 108.8 dB $\mu$ V @ 75 Ohm

Note 2: measured with 2 Tones of -6 dBm each, separated by 5 MHz

## Order Information

<b>Products and Options</b>	
DEV 2161	CFP 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
Option 30	Additional 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
DEV 2162	CFP 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
Option 31	Additional 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
DEV 2165	CFP 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
Option 32	Additional 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)

## Contact

DEV Systemtechnik GmbH  
 Grüner Weg 4A  
 61169 Friedberg  
 GERMANY  
 Phone: +49 6031 6975 100  
 Fax: +49 6031 6975 114  
 info@dev-systemtechnik.com  
 www.dev-systemtechnik.com

Rev. 13-Dec-2017

Technical specifications are subject to change