

DEV Essentials Active L-Band Splitters



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

Products:

DEV 2161	DEV Essentials 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
DEV 2162	DEV Essentials 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)
DEV 2165	DEV Essentials 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 one additional Splitter.

Compared with DEV Standard Products, the DEV Essentials 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
- Each Splitter with switchable LNB Power
- Auto Powering on output port 1 using Receiver/Demodulator
- Compact 19", ½ RU (22 mm) Chassis with up to two Splitters with external power supply
- Each Product is delivered with detachable 1 RU Rack Mounting Brackets permitting the Assembly of two DEV 216x within 1 RU (44 mm) Rack Space

Technical Data

DEV 2161	DEV Essentials 1:4 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)		
DEV 2162	DEV Essentials 1:8 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)		
DEV 2165	DEV Essentials 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)		
Capacity			
Number of Splitters	DEV 2161: 1...2	DEV 2162: 1...2	DEV 2165: 1
Number of Outputs per Splitter	DEV 2161: 4	DEV 2162: 8	DEV 2165: 16
RF Specifications			
Frequency Range	500...2300 MHz		
Impedance, Connectors	75 Ohm, precision F (f)		
Damage Level	120 dBμV		
Nominal Input Level	100 dBμV		
Return Loss	>14 dB (all Ports)		
	typ. >14 dB, min. 10 dB (Note 3)		
Insertion Loss	DEV 2161: 0±1.5 dB	DEV 2162: 0±1.5 dB DEV 2162: -1.5±1.5 dB (Note 3)	DEV 2165: -3±2 dB
Flatness	±1.5 dB (500...2300 MHz)		
	±0.3 dB (in any 36 MHz Interval)		
Isolation between Output Ports	>25 dB (950...2150 MHz)		
Outputs DC blocked	Yes (standard model)		
	DC Pass on Common Port from Output Port 1 for Option DCp and Option 31DCp (Note 3)		
Isolation between Splitters	Typ. 45 dB, min. 35 dB, for Option 31DCp		
10 MHz Pass-Through	Yes, only for Option DCp and Option 31DCp (Note 3)		
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		
LNB Power			
LNB Power with External PSU	17.5±0.5 V; <350 mA per Input @ 30 °C; on/off switchable using Bias Button		
LNB Power with Auto Powering	18V/13V DC from Receiver/Demodulators (Note 3)		
Power Supply			
Primary Voltage	100...240 V AC using External Power supply 18V/13V using In-line power supply (Note 3)		
Power Consumption	typ. <12 VA plus LNB Power		
General Specifications			
Size	19" (483 mm) Width, ½ RU (22 mm) Height, ~135 mm Depth		
Weight	~2 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 μ V @ 75 Ohm

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

Note 3: applies to Option DCp and Option 31DCp (DC and 10 MHz passthrough via output port 1 to common port using receiver/demodulator)

Order Information

Products and Options

DEV 216x	
Option P.LnbOn	LNB Power On at Power Up
DEV 2161	DEV Essentials 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	DEV Essentials 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)
Option 31DCp	Additional 1:8 Active Splitter; DC,500...2300 MHz; 75 Ohm, F(f)
Option DCp	DC-pass: DC, 500...2300 MHz
DEV 2165	DEV Essentials 1:16 Active Splitter; 500...2300 MHz; 75 Ohm, F (f)

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Technical specifications are subject to change