

L-Band Distribution Amplifiers



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

Products:

DEV 2182/50	1:8 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f)
DEV 2182/50-75	1:8 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f) - 75 Ohm, F (f)
DEV 2182/75	1:8 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2182/75-50	1:8 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)
DEV 2183/50	2*1:8 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f)
DEV 2183/50-75	2*1:8 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f) - 75 Ohm, F (f)
DEV 2183/75	2*1:8 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2183/75-50	2*1:8 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)
DEV 2185/50	1:16 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f)
DEV 2185/50-75	1:16 Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f) - 75 Ohm, F (f)
DEV 2185/75	1:16 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2185/75-50	1:16 Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)

Features:

- ▀ L-Band Distribution Amplifiers in a 19" 1 RU Chassis
- ▀ Impedance 50 Ohm or 75 Ohm or mixed Impedances
- ▀ Monitoring Output
- ▀ LNB Power Supply with Current Monitoring providing adjustable Thresholds and Alarm Output
- ▀ RF Sensing with adjustable Threshold and Alarm Output
- ▀ Redundant Power Supplies

Technical Data

DEV 2182/zz 1:8 Distribution Amplifier; 950...2150 MHz

DEV 2183/zz 2*1:8 Distribution Amplifier; 950...2150 MHz

DEV 2185/zz 1:16 Distribution Amplifier; 950...2150 MHz

■ "zz" indicates the impedance and can be "50", "50-75", "75", or "75-50".

Capacity

Number of Input Ports	DEV 2182/zz: 1	DEV 2183/zz: 2*1	DEV 2185/zz: 1
Number of Output Ports	DEV 2182/zz: 8	DEV 2183/zz: 2*8	DEV 2185/zz: 16

RF Specifications

Frequency Range	950...2150 MHz
Impedance (zz), Connectors	for all 50 Ohm Ports: 50 Ohm, SMA (f) for all 75 Ohm Ports: 75 Ohm, precision F (f)
Damage Level	+10 dBm
Nominal Input Level	-10 dBm
Return Loss	>14 dB
Insertion Loss	0±3 dB
Flatness	±1.0 dB (950...2150 MHz) ±0.3 dB (in any 36 MHz Interval)
Isolation between Output Ports	>25 dB
Intermodulation Distortion	<-40 dBc (two Tones @ -13 dBm)
Group Delay Distortion	<5 ns
Noise Figure	<10 dB

Monitoring Port(s)

Impedance, Connector	50 Ohm, SMA (f)
Return Loss	>16 dB
Frequency Response	= Input Level ± 1.0 dB

LNB Power & Current Monitoring

LNB Power	15.5±0.5 V; max. 500 mA (per Channel)
Adjustable Level Setting:	
• Upper Alarm Level	100...500 mA
• Lower Alarm Level	0...300 mA
Alarm Threshold Adjustment	The upper and lower Alarm Levels are adjustable for each Channel using a standard Terminal Application via the (related) RS 232 Interface (Sub-D 9 (f) Connector) at the Front Side of the Device.
Alarm Indication	via LED and via dry Contacts

RF Sensing

Adjustable Threshold Level	0 dBm > Threshold Level > -45 dBm
Alarm Threshold Adjustment	The Threshold Level is adjustable for each Channel using a standard Terminal Application via the (related) RS 232 Interface (Sub-D 9 (f) Connector) at the Front Side of the Device.
Threshold Level Accuracy	±3 dB
Threshold Repeatability	<0.5 dB
Alarm Indication	via LED and via dry Contacts

Dry Contacts

Alarm Connector	Sub-D-9 (m)
Contact Load	60 V; 300 mA
Two Stage Alarm Signalization for Power Line Failure:	
B-Alarm	One Power Supply Unit is defective
A-Alarm	All Power Supply Units are defective
Alarm Signalization for LNB Current and/or RF Sensing and/or secondary Power Fail:	
Amplifier Alarm	The LNB Current is not within Current Monitoring Interval and/or the RF Level is below the Threshold Level and/or a secondary Power Fail.

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Technical Data (cont.)

Redundant Power Supply

Supply Voltage	100...240 V AC supplied by two different Lines
Power Consumption	<40 VA

General Specifications

Size	19" (483 mm) Width, 1 RU (44 mm) Height, ~260 mm Depth
Weight	~8 kg
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E

Order Information

Products

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DEV 2182/75	1:8	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2182/75-50	1:8	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)
DEV 2183/50	2*1:8	Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f)
DEV 2183/50-75	2*1:8	Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f) - 75 Ohm, F (f)
DEV 2183/75	2*1:8	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2183/75-50	2*1:8	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)
DEV 2185/50	1:16	Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f)
DEV 2185/50-75	1:16	Distribution Amplifier; 950...2150 MHz; 50 Ohm, SMA (f) - 75 Ohm, F (f)
DEV 2185/75	1:16	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f)
DEV 2185/75-50	1:16	Distribution Amplifier; 950...2150 MHz; 75 Ohm, F (f) - 50 Ohm, SMA (f)

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Technical specifications are subject to change