

## L-Band Distribution Amplifier



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

### Product

**DEV 2194/75** Distribution Amplifier 1:16 or 2 \* 1:8; 700...2300 MHz;  
inputs 75 Ohm, F (f); outputs 75 Ohm, BNC (f)

### Features

- ▀ L-Band Distribution Amplifier in a small 19" 1 RU Chassis
- ▀ Integrated 1:2 Splitter for selecting 2 \* 1:8 or 1:16 Operation Mode
- ▀ Monitoring Output Ports in 50 Ohm and 75 Ohm
- ▀ LNB Power with supply Current Monitoring, switchable 13/18 V and 22 kHz Tone
- ▀ RF Sensing with adjustable Threshold
- ▀ Variable Gain for both Distribution Amplifiers
- ▀ Variable Slope Control for both Distribution Amplifiers
- ▀ SNMP Support
- ▀ DEV Web Interface
- ▀ Signal Recording and Data Backup Feature

## Technical Data

### DEV 2194/75 L-Band Distribution Amplifier

#### Capacity

Number of Input Ports	2 (or 1 if cascaded to 1:16 Operation Mode)
Number of Output Ports	2 * 8 (or 16 if cascaded to 1:16 Operation Mode)

#### RF Specifications

Frequency Range	700...2300 MHz
Impedance, Connectors	75 Ohm, precision F (f) (for all Input Ports) 75 Ohm, BNC (f) (for all Output Ports)
Damage Level	+10 dBm @ 50 Ohm / 120 dB $\mu$ V @ 75 Ohm
Nominal Input Level	-10 dBm @ 50 Ohm / 85 dB $\mu$ V @ 75 Ohm
Return Loss	>14 dB
Amplifier Gain Variation	0...31 dB
Variable Slope	0...8 dB
Flatness	$\pm$ 1.0 dB (over entire Band, optimum Slope) $\pm$ 0.3 dB (in any 36 MHz Interval)
Intermodulation Distortion (two Tones separated 5 MHz)	<-40 dBc @ -10 dBm aggregated Power
Isolation between Output Ports	>25 dB
Group Delay	<1 ns
Noise Figure	<10 dB (for 1:8 Distribution Amplifier) <15 dB (for 1:16 Distribution Amplifier)

#### Monitoring Ports 50 Ohm

Impedance, Connector	50 Ohm, SMA (f)
Return Loss	>16 dB
Frequency Response	= Input Level -20 $\pm$ 3 dB (for 1:8 Distribution Amplifier) = Input Level -24 $\pm$ 3 dB (for 1:16 Distribution Amplifier)

#### Monitoring Ports 75 Ohm

Impedance, Connector	75 Ohm, F (f)
Return Loss	>16 dB
Frequency Response	= Output Level +13 $\pm$ 3 dB

#### LNB Power & Current Monitoring

Voltage and Tone Control	13 V, 18 V and 0 Hz, 22 kHz
LNB Power	Max. 350 mA per Input
Adjustable Level Setting:	
• Upper Alarm Level	• max. 330 mA
• Lower Alarm Level	• min. 50 mA

#### RF Sensing

Adjustable Threshold Level	0 dBm > Threshold Level > -50 dBm
Threshold Level Accuracy	$\pm$ 3 dB
Threshold Repeatability	<0.5 dB

#### Remote Communication

Interface (Connector)	• Ethernet (RJ-45)
Remote Control & Surveillance (Interface)	• via Web Interface (Ethernet) • via SNMP (Ethernet)

#### Power Supply

Supply Voltage	100...240 V AC
Power Consumption	<40 VA

#### General Specifications

Size	19" (483 mm) Width, 1 RU (44 mm) Height, ~285 mm Depth
Weight	~6 kg
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E

## Technical Data (cont.)

<b>Option 01</b>	<b>50 Ohm, BNC (f) instead of 75 Ohm, F (f) Connectors</b>	
<b>RF Specifications</b>		
Impedance, Connectors	50 Ohm, BNC (f)	(for all Ports)
Return Loss	>10 dB	
<b>Monitoring Ports 50 Ohm</b>		
Impedance, Connector	50 Ohm, SMA (f) and 50 Ohm, BNC (f)	
Return Loss	>16 dB	
Frequency Response	= Input Level $-20\pm 3$ dB (for 1:8 Distribution Amplifier, SMA Ports)	
	= Input Level $-24\pm 3$ dB (for 1:16 Distribution Amplifier, SMA Ports)	
	= Output Level $+10\pm 3$ dB (BNC Monitoring Ports)	

## Order Information

<b>Product</b>	
DEV 2194/75	Distribution Amplifier 2 * 1:8 or 1:16; 700...2300 MHz; inputs 75 Ohm, F (f); outputs 75 Ohm, BNC (f)
Option 01	50 Ohm, BNC (f) instead of 75 Ohm, F (f) Connectors

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