

Active CATV-Band Devices



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

Products:

DEV 2308	8:1 Active Combiner; 47...862 MHz; 75 Ohm, F (f)
DEV 2316	16:1 Active Combiner; 47...862 MHz; 75 Ohm, F (f)
DEV 2701	Power Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2708	1:8 Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2716	1:16 Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2744	4:4 Combiner / Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)

Features:

- ▀ Active CATV-Band Devices in a compact 19" 1 RU Chassis
- ▀ Impedance 75 Ohm
- ▀ Dual redundant Amplifiers with Monitoring and Alarm Functionality
- ▀ Adjustable Amplifier Gain and Slope
- ▀ Monitoring Port
- ▀ Redundant Power Supplies

Technical Data

DEV 23xx, DEV 27xx Active CATV-Band Devices

Capacity

Number of Inputs:Outputs DEV 2308: 8:1; DEV 2316: 16:1 ;DEV 2701: 1:1;
DEV 2708: 1:8; DEV 2716: 1:16; DEV 2744: 4:4

RF Specifications

Frequency Range 47...862 MHz
Impedance, Connectors 75 Ohm, precision F (f)
Damage Level 125 dB μ V
Nominal Input Level <100 dB μ V
Return Loss >14 dB, typ. 18 dB
Variable Attenuation 0...15 \pm 3 dB
Variable Slope 0...12 dB
Frequency Response \pm 1.0 dB (over entire Band)
Isolation between equal Ports >24 dB

Intermodulation Distortion
60 dBc @ following Conditions

@ Output Level	DEV 23xx	DEV 27xx (DEV 2744)
IMA3	<118 dB μ V	<102 dB μ V (<112 dB μ V)
IMA2	<114 dB μ V	<98 dB μ V (<108 dB μ V)
CTB 110 Channels	<110 dB μ V	<94 dB μ V (<104 dB μ V)
CSO 110 Channels	<112 dB μ V	<96 dB μ V (<106 dB μ V)

Group Delay <5 ns
Noise Figure <8 dB

Monitoring Port

Return Loss >18 dB
Frequency Response = Output Level – 20 \pm 1.0 dB

Redundant Power Supply

Primary 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 ~5 kg
Environmental Conditions ETS 300019 Part 1-3 Class 3.1

Order Information

Products

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DEV 2701 Power Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2708 1:8 Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2716 1:16 Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)
DEV 2744 4:4 Combiner / Distribution Amplifier; 47...862 MHz; 75 Ohm, F (f)

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Technical specifications are subject to change