

Active CATV-Band Combiners & Splitters

Core Function Products Series



Products

DEV 2328	8:1 Active CATV-Band Combiner, 75 Ohm F(f)
DEV 2336	16:1 Active CATV-Band Combiner, 75 Ohm F(f)
DEV 2728	1:8 Active CATV-Band Splitter, 75 Ohm F(f)
DEV 2736	1:16 Active CATV-Band Splitter, 75 Ohm F(f)

Description

The DEV 2328 and DEV 2336 are active combiners. The DEV 2728 and DEV 2736 are active splitters for the frequency range 5...1300 MHz. Each product is equipped with a single combiner or splitter unit with either 8 input (DEV 2328) or 8 output (DEV 2728) ports or 16 input (DEV 2336) or 16 output (DEV 2736) ports.

Optionally, the DEV 2336 and DEV 2736 can be ordered with one additional combiner or splitter unit.; and the DEV 2328 and the DEV 2728 can be ordered with up to three additional combiner or splitter units.

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 5...1300 MHz
- ▀ Up to two combiner or splitter units with 16 ports and up to four combiner or splitter units with 8 ports can be integrated within the compact 1 RU chassis

Technical Data

DEV 2328, DEV 2336 Active CATV-Band Combiners DEV 2728, DEV 2736 Active CATV-Band Splitters

RF Specifications

Frequency range	5...1300 MHz	
Number of combiner (splitter) units	1...2 1...4	(DEV 2336, DEV 2736), (DEV 2328, DEV 2728)
Number of inputs (outputs) per combiner (splitter) unit	8 16	(DEV 2328, DEV 2728), (DEV 2336, DEV 2736)
Impedance, connectors	75 Ohm, Precision F (f)	
Return loss	>14 dB	
Insertion loss	(Combiner: up to input level 108 dB μ V & Splitter: up to input level 93 dB μ V) 4 \pm 1.0 dB (@ 5 MHz) 0 \pm 1.5 dB (10...1003 MHz) 1 \pm 2.0 dB (>1003 MHz)	
Input level (total voltage level)	<138 dB μ V <123 dB μ V	(Combiner) (Splitter)
Output level	<108 dB μ V <93 dB μ V	(Combiner) (Splitter)

For Combiner input level >108 dB μ V & for Splitter input level >93 dB μ V, the output is kept constant at max. level.

Frequency response	\pm 2 dB	(10...1003 MHz)
Isolation between equal ports	>18 dB	
CSO	-70 dBc (Combiner, 77 channels, 89 dB μ V per channel at output) -70 dBc (Splitter, 77 channels, 75 dB μ V per channel at output)	
CTB	-76 dBc (Combiner, 77 channels, 89 dB μ V per channel at output) -76 dBc (Splitter, 77 channels, 75 dB μ V per channel at output)	

External Power Supply

Power supply	100...240 V AC
Power consumption	typ. <20 VA

General Specifications

Housing	19" (483 mm), 1 RU (44 mm), 210 mm depth
Weight	~2.5 kg + 0.3 kg power supply
Environmental conditions	ETS 300019 Part 1-3 Class 3.1

Order Information

DEV 2328 Option 28	8:1 Active CATV-Band Combiner, 75 Ohm F(f) Additional 8:1 Combiner Unit (this option can be ordered up to 3 *)
DEV 2336 Option 29	16:1 Active CATV-Band Combiner, 75 Ohm F(f) Second 16:1 Combiner Unit
DEV 2728 Option 31	1:8 Active CATV-Band Splitter, 75 Ohm F(f) Additional 1:8 Splitter Unit (this option can be ordered up to 3 *)
DEV 2736 Option 32	1:16 Active CATV-Band Splitter, 75 Ohm F(f) Second 1:16 Splitter Unit

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