

Active L-Band Combiners



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

Products

DEV 2232	8:1 Active Combiner; 800...2450 MHz
DEV 2233	2*8:1 Active Combiner; 800...2450 MHz
DEV 2235	16:1 Active Combiner; 800...2450 MHz

Features

- ▀ Active L-Band Combiners a 19" 1 RU Chassis
- ▀ Impedance 50 Ohm or 75 Ohm or mixed Impedances for Input Ports and Output Port available
- ▀ DC blocked Input Ports
- ▀ RF Sensing with adjustable Threshold and Alarm Indication
- ▀ Redundant Power Supplies

Technical Data

DEV 2232	8:1 Active Combiner; 800...2450 MHz
DEV 2233	2*8:1 Active Combiner; 800...2450 MHz
DEV 2235	16:1 Active Combiner; 800...2450 MHz

■ Note that it is mandatory to select product version options to specify the connector configuration of the product, please refer to the Order Information section

Capacity

Number of Input Ports	DEV 2232: 8	DEV 2233: 2*8	DEV 2235: 16
Number of Output Ports	DEV 2232: 1	DEV 2233: 2*1	DEV 2235: 1

RF Specifications

Frequency Range	800...2450 MHz		
Impedance, Connectors	for all 50 Ohm Ports: 50 Ohm, SMA (f) or 50 Ohm, BNC (f) for all 75 Ohm Ports: 75 Ohm, precision F (f) or 75 Ohm, BNC (f)		
Damage Level	+10 dBm		
Nominal Input Level	-10 dBm (aggregated Power)		
Return Loss	>14 dB		
Insertion Loss	0±1.5 dB		
Flatness	±1 dB (800...2450 MHz) ±0.25 dB (in any 36 MHz Interval)		
Isolation between Input Ports	>25 dB		
Intermodulation Distortion	<-40 dBc (two Tones @ -13 dBm)		
Group Delay Distortion	<0.5 ns (in any 36 MHz Interval)		
Noise Figure	DEV 2232: <25 dB	DEV 2233: <25 dB	DEV 2235: <29 dB

Monitoring Port(s)

Impedance, Connector	50 Ohm, SMA (f)		
Return Loss	>14 dB		
Frequency Response	DEV 2232: = Input Level -35±3 dB	DEV 2233: = Input Level -35±3 dB	DEV 2235: = Input Level -39±3 dB

RF Sensing

Adjustable Threshold Level	0 dBm > Threshold Level > -50 dBm
Alarm Threshold Adjustment	The threshold level is adjustable for each channel using a standard terminal application via the (related) USB interface at the chassis front side.
Threshold Level Accuracy	±3 dB
Threshold Repeatability	<0.5 dB
Alarm Indication	via LED

Redundant Power Supply

Supply Voltage	100...240 V AC supplied by two different Lines
Power Consumption	<35 VA

General Specifications

Size	19" (483 mm) Width, 1 RU (44 mm) Height, ~260 mm Depth
Weight	~2 kg
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E

Order Information

Products

DEV 2232	8:1	Active Combiner; 800...2450 MHz
DEV 2233	2*8:1	Active Combiner; 800...2450 MHz
DEV 2235	16:1	Active Combiner; 800...2450 MHz

Product Version Options

■ The impedance and the RF connectors of the product can be configured very flexible.

Thus for ordering a product, it is mandatory to specify

a) one of the following options per 8 combiner input ports and

b) one of the following options per combiner output port

a) Combiner Input Ports Options

Option vCin50	Eight Combiner Input Ports 50 Ohm, SMA (f)
Option vCin50B	Eight Combiner Input Ports 50 Ohm, BNC (f)
Option vCin75	Eight Combiner Input Ports 75 Ohm, F (f)
Option vCin75B	Eight Combiner Input Ports 75 Ohm, BNC (f)

b) Combiner Output Port Options

Option vCout50	One Combiner Output Port 50 Ohm, SMA (f)
Option vCout50B	One Combiner Output Port 50 Ohm, BNC (f)
Option vCout75	One Combiner Output Port 75 Ohm, F (f)
Option vCout75B	One Combiner Output Port 75 Ohm, BNC (f)

Order Examples

DEV 2232 with all ports in 75 Ohm, F (f)

- 1 × DEV 2232
- 1 × Option vCin75
- 1 × Option vCout75

DEV 2233 with all ports of the first combiner in 75 Ohm, F (f) and with all ports of the second combiner in 75 Ohm, BNC (f)

- 1 × DEV 2233
- 1 × Option vCin75
- 1 × Option vCout75
- 1 × Option vCin75B
- 1 × Option vCout75B

DEV 2235 with 8 combiner input ports in 50 Ohm, SMA (f), 8 combiner input ports in 75 Ohm, F (f), and with the output port in 75 Ohm, BNC (f)

- 1 × DEV 2235
- 1 × Option vCin50
- 1 × Option vCin75
- 1 × Option vCout75B

Contact

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