

## Active L-Band Splitters



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

### Products

|                 |                                       |
|-----------------|---------------------------------------|
| <b>DEV 2132</b> | 1:8 Active Splitter; 800...2450 MHz   |
| <b>DEV 2133</b> | 2*1:8 Active Splitter; 800...2450 MHz |
| <b>DEV 2135</b> | 1:16 Active Splitter; 800...2450 MHz  |

### Features

- Active L-Band Splitters in a 19" 1 RU Chassis
- Impedance 50 Ohm or 75 Ohm or mixed Impedances for Input Port and Output Ports available
- LNB Power Supply with Current Monitoring providing adjustable Thresholds and Alarm Indication
- RF Sensing with adjustable Threshold and Alarm Indication
- Redundant Power Supplies

## Technical Data

|                 |                                              |
|-----------------|----------------------------------------------|
| <b>DEV 2132</b> | <b>1:8 Active Splitter; 800...2450 MHz</b>   |
| <b>DEV 2133</b> | <b>2*1:8 Active Splitter; 800...2450 MHz</b> |
| <b>DEV 2135</b> | <b>1:16 Active Splitter; 800...2450 MHz</b>  |

■ 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 2132: 1 | DEV 2133: 2*1 | DEV 2135: 1  |
| Number of Output Ports | DEV 2132: 8 | DEV 2133: 2*8 | DEV 2135: 16 |

### RF Specifications

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

### Monitoring Port(s)

|                      |                        |
|----------------------|------------------------|
| Impedance, Connector | 50 Ohm, SMA (f)        |
| Return Loss          | >14 dB                 |
| Frequency Response   | = Input Level -21±3 dB |

### LNB Power & Current Monitoring

|                                |                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| LNB Power                      | max. 450 mA (per Channel)                                                                                                                               |
| Voltage and Tone Control       | 13 V, 18 V and 0 Hz, 22 kHz                                                                                                                             |
| Voltage/Tone Control Selection | The voltage/tone is selectable for each channel using a standard terminal application via the (related) USB interface at the front side of the chassis. |

#### Adjustable Level Setting:

- Upper Alarm Level
- Lower Alarm Level

|                            |                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Threshold Adjustment | The upper and lower alarm levels are adjustable for each channel using a standard terminal application via the (related) USB interface at the front side of the chassis. |
| Alarm Indication           | via LED                                                                                                                                                                  |

### 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 2132 | 1:8   | Active Splitter; 800...2450 MHz |
| DEV 2133 | 2*1:8 | Active Splitter; 800...2450 MHz |
| DEV 2135 | 1:16  | Active Splitter; 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 splitter input port and

b) one of the following options per 8 splitter output ports

#### a) Splitter Input Port Options

|                |                                         |
|----------------|-----------------------------------------|
| Option vSin50  | One Splitter Input Port 50 Ohm, SMA (f) |
| Option vSin50B | One Splitter Input Port 50 Ohm, BNC (f) |
| Option vSin75  | One Splitter Input Port 75 Ohm, F (f)   |
| Option vSin75B | One Splitter Input Port 75 Ohm, BNC (f) |

#### b) Splitter Output Ports Options

|                 |                                             |
|-----------------|---------------------------------------------|
| Option vSout50  | Eight Splitter Output Ports 50 Ohm, SMA (f) |
| Option vSout50B | Eight Splitter Output Ports 50 Ohm, BNC (f) |
| Option vSout75  | Eight Splitter Output Ports 75 Ohm, F (f)   |
| Option vSout75B | Eight Splitter Output Ports 75 Ohm, BNC (f) |

## Order Examples

### DEV 2132 with all ports in 75 Ohm, F (f)

- 1 × DEV 2132
- 1 × Option vSin75
- 1 × Option vSout75

### DEV 2133 with all ports of the first splitter in 75 Ohm, F (f) and with all ports of the second splitter in 75 Ohm, BNC (f)

- 1 × DEV 2133
- 1 × Option vSin75
- 1 × Option vSout75
- 1 × Option vSin75B
- 1 × Option vSout75B

### DEV 2135 with the input port in 50 Ohm, SMA (f), 8 splitter output ports in 75 Ohm, F (f), and 8 splitter output ports in 75 Ohm, BNC (f)

- 1 × DEV 2135
- 1 × Option vSin50
- 1 × Option vSout75
- 1 × Option vSout75B

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