

# DEV 7231/7331

## OPTRIBUTION BASIC L-BAND LINK

- Empfohlen für „RF-over-Fiber“-Links mit optischen Verlusten bis 10 dB
- Fixe Verstärkung
- HF-Signalerkennung mit Status LED
- LNB Power mit Stromüberwachung und Status LED
- Optischer Stecker-Typ SC/APC (optional FC/APC oder E2000 HRL)



## SPEZIFIKATIONEN

| DEV 7231 & DEV 7331              | VALUE              | CONDITION                              |
|----------------------------------|--------------------|----------------------------------------|
| Frequency Range                  | 950...2150 MHz     |                                        |
| Max. Link Gain                   | 4±3 dB             |                                        |
| Flatness                         | ±1.5 dB<br>±0.2 dB | 950...2150 MHz<br>In any 36 MHz window |
| Return Loss                      | >14 dB, typ. 16 dB |                                        |
| Gain Stability                   | ±2 dB              | 0...+50 °C / 32...122 °F               |
| Group Delay Distortion           | <2 ns              |                                        |
| Nominal RF Input Level           | -10 dBm            | Total power                            |
| Noise Figure                     | 24 dB              |                                        |
| SFDR2/3                          | 107 dBc            | Note 1                                 |
| CNR                              | 59 dB              | Notes 2, 3, 4                          |
| Output IP3                       | 16 dBm             |                                        |
| OP1dB                            | -1 dBm             |                                        |
| Intermodulation Distortion       | >40 dBc            | @ 2 tones, -13 dBm each                |
| Input Power dynamic Range        | -45...-6 dBm       | Total power                            |
| Damage RF Input Level            | 12 dBm             | Total power                            |
| Maximum allowable optical Losses | 23 dB              |                                        |

Note 1: Pin = -15 dBm, IM3 = 48 dBc

Note 2: Pin = -15 dBm

Note 3: 36 MHz window

Note 4: with back to back fiber connection (2 m) and minimum noise figure

## TECHNISCHE DATEN DEV 7231 & DEV 7331

| COMMON OPTICAL SPECIFICATIONS              | VALUE                                        | CONDITION          |
|--------------------------------------------|----------------------------------------------|--------------------|
| Fiber Type                                 | Single Mode 9/125 µm                         |                    |
| Optical Connector                          | SC/APC, E2000/HRL, or FC/APC                 | Standard is SC/APC |
| TX SPECIFICATIONS (DEV 7231)               |                                              |                    |
| Laser Type                                 | DFB                                          |                    |
| Laser Class<br>(according to IEC 60 825-1) | Class 1M (low Risk to Eyes, no Risk to Skin) |                    |
| Optical Power Output                       | 1 mW / 0 dBm                                 |                    |
| Power Consumption                          | 15 V; 200 mA                                 | Without LNB power  |
| Weight                                     | ~0.5 kg                                      |                    |

| TX LNB POWER & CURRENT MONITORING              |                                                                |  |
|------------------------------------------------|----------------------------------------------------------------|--|
| LNB Power                                      | 18+0/-3 V; max. 500 mA                                         |  |
| Alarm Indication                               | Via LED on the Front Panel & via Remote Communication          |  |
| RX SPECIFICATIONS (DEV 7331)                   |                                                                |  |
| Wavelength Range                               | 1100...1650 nm                                                 |  |
| Min. optical Input Level (optical Sensitivity) | -22 dBm                                                        |  |
| Damage optical Input Level                     | +10 dBm                                                        |  |
| Power Consumption                              | 15 V; 200 mA                                                   |  |
| Weight                                         | ~0.3 kg                                                        |  |
| TX & RX RF SENSING                             |                                                                |  |
| Adjustable Threshold Level (THL)               | 0 dBm > THL > -50 dBm (Factory Setting: -30 dBm )              |  |
| Threshold Level Accuracy                       | ±3 dB                                                          |  |
| Threshold Repeatability                        | <0.5 dB                                                        |  |
| Alarm Indication                               | Via LED on the Front Panel & via Remote Communication          |  |
| TX & RX GENERAL SPECIFICATION                  |                                                                |  |
| Size                                           | 4 HP (20 mm) Width, 3 RU (133 mm) Height, 3.94" (100 mm) Depth |  |
| Environmental Conditions                       | ETS 300019 Part 1-3 Class 3.1                                  |  |

## BESTELLINFORMATIONEN

| PRODUCT                   |                                                       |
|---------------------------|-------------------------------------------------------|
| DEV 7231                  | Basic Optribution Transmitter; 950...2150 MHz; SC/APC |
| DEV 7331                  | Basic Optribution Receiver; 950...2150 MHz; SC/APC    |
| OPTICAL CONNECTOR OPTIONS |                                                       |
| Option 07                 | FC/APC Optical Connector                              |
| Option 08                 | E2000/HRL Optical Connector                           |