





**OFN46-WDx-ALC**

**APL46**

Order number 212 250

Order number 212 247

Lid



optional  
Order number 212 248



Optical RF receiver  
OR46-WDx-ALC  
(RF output and GPON Port)

Optical interconnection point  
(up to 2 optical outputs  
mountable)

| Type   |        | OFN46-WDx-ALC  |
|--|--------|--|
| Housing  |        | compact  |
| Connector type   |        | COM Pigtail LC/APC, PON Coupler LC/APC   |
| Optical parameters   |        |  |
| CATV operating wavelength (WDM pass channel)   | [nm]   | 1550...1560  |
| PON Port operating wavelength:<br>GPON / XG-PON /XGS-PON /<br>NG-PON/measurement<br>(WDM reflective channel) | [nm]   | 1260 .. 1330 / 1480 ..1500 / 1575..1581 / 1524..1544 / 1596..1660  |
| Isolation CATV (pass channel)<br>to 1310 nm<br>to 1490 nm<br>to 1577 nm                                      | [dB]   | 35<br>35<br>30   |
| Optical input power  | [dBm]  | -12...+2   |
| Nominal optical input power<br>(AGC range)   | [dBm]  | -8...+2  |
| Multicolor LED   |        | Red (no input): < -15.0 dBm<br>Yellow (low input): -15.0 dBm .. -8.0 dBm<br>Green (normal): -8.0 dBm .. +2.0 dBm<br>Red (high): > +2.0 dBm |
| Isolation PON Port to 1550 nm  | [dB]   | 18   |
| Insertion loss CATV Port on filter   | [dB]   | < 1.0  |
| Insertion loss PON Port on filter  | [dB]   | < 1.0  |
| Optical return loss  | [dB]   | > 40   |
| Fibre type   |        | Single Mode Fibre 9/125  |
| RF parameters  |        |  |
| Frequency range  | [MHz]  | 45 ... 1218  |
| Flatness   | [dB]   | ±0,75  |
| RF level (OMI 3,5 %)*  | [dBμV] | ≥ 76 (@ Pin -8.0 dBm..+2.0 dBm within AGC)   |
| RF port return loss  | [dB]   | ≥ 18   |
| Output impedance   | [Ω]    | 75   |
| RF connector type  |        | F-jack   |
| Common data  |        |  |
| Power supply unit  | [VDC]  | Primary: 100 .. 240 VAC - 50/60 Hz - 0,5 A<br>Secondary: +12,0 VDC / 0,5 A<br>Max. operating temperature: 55 °C                            |
| Power consumption  | [W]    | ≤ 2  |
| Housing type   |        | Plastic wall mount housing, with or without plug in RF optical receiver  |
| Dimensions inner FTTH receiver<br>(L x W x H)  | [mm]   | 80 x 55 x 25   |
| Dimensions plastic tray<br>with locking screw<br>(L x W x H)   | [mm]   | 150 x 150 x 48   |
| Ambient temperature  | [°C]   | -20...+55  |
| Relative humidity  | [%]    | maximum 95, not condensing   |