

## ONX 1550-11 Micro Fibre Node | 102...1218 MHz/5...85 MHz (1310 nm)



- ✓ For FTTH/FTTB applications/RFoG networks
- ✓ Low noise optical receiver
- ✓ Constant RF output level for the wide optical operating range, OLC function
- ✓ Adjustable interstage equalization
- ✓ Adjustable upstream attenuation
- ✓ DFB Laser (CW mode/Burst mode)
- ✓ Local power supply
- ✓ Al-die-cast housing
- ✓ Testports for up- and downstream

### Order information

|                          |             |
|--------------------------|-------------|
| Type                     | ONX 1550-11 |
| Order no.                | ONX155011   |
| GTIN                     | Auf Anfrage |
| PE                       | 1           |
| VE                       | 1           |
| EU customs tariff number | 85437030    |



### Technical data

#### Input

|                     |            |
|---------------------|------------|
| Optical connector   | 1 × SC/APC |
| Optical return loss | ≥ 40 dB    |

#### Downstream

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Wavelength                                      | 1540...1560 nm           |
| Optical input level                             | -8...+1 dBm              |
| Optical OLC range                               | 0...-6 dBm               |
| Frequency range                                 | 102...1218 MHz           |
| Output level @ OMI 3.5% (flat)                  | 96 dBμV                  |
| CSO (Cenelec 42, OMI 3.5%)                      | > 60 dBc                 |
| CTB (Cenelec 42, OMI 3.5%)                      | > 60 dBc                 |
| Flatness                                        | ±1 dB                    |
| Noise current density                           | 7.4 pA/√Hz               |
| Equalization interstage: pluggable with jumpers | 0/2/4/6 dB               |
| Return loss                                     | ≥ 18 dB (-1.5 dB/Octave) |
| Test port                                       | -20 dB                   |

#### Upstream

|                                       |                          |
|---------------------------------------|--------------------------|
| Laser type                            | DFB                      |
| Wavelength                            | 1310 nm                  |
| Laser mode (switchable)               | CW/Burst                 |
| Optical output level                  | +3 ±1 dBm                |
| Laser switch-on time                  | ≤ 1.3 μsec               |
| RF level for laser on   off           | 67 dBμV   58 dBμV        |
| Frequency range                       | 5...85 MHz               |
| OMI @ 75 dBμV US input level          | 15 %                     |
| Flatness                              | ±1 dB                    |
| Return loss                           | ≥ 18 dB (-1.5 dB/Octave) |
| Attenuation: adjustable in 2 dB steps | 0...30 dB                |
| Test port                             | -20 dB                   |

#### RF connectors

|      |          |
|------|----------|
| Type | F-female |
|------|----------|

#### General

|                             |               |
|-----------------------------|---------------|
| Operating voltage           | 100...240 VAC |
| Power consumption           | 7.8 W         |
| Operating temperature range | 0...50 °C     |

|                              |                  |
|------------------------------|------------------|
| Dimensions (W × H × D) appr. | 195 x 90 x 55 mm |
| Weight                       | 0.750 kg         |

## Example of use

