

Preliminary Technical Data LX21 Single DS Receiver

1. Description

- optical receiver
- automatic level control (optical ALC) for constant output level

2. Downstream

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|---|--------------------------|
| - wavelength | 1280– 1630 nm |
| - opt. return loss | > 40 dB |
| - fiber | single mode 9/125 μm |
| - optical connector | SC/APC, LC/APC |
| - output impedance | 75 Ohm |
| - output return loss | ≥ 18 dB (-1,5 dB / oct.) |
| - frequency range | 47– 1006 MHz |
| - opt. input level for controlled electrical output level | -7 to +3 dBm |
| - max controlled output level (ALC on, 5% OMI) | 90 dBμV |
| - attenuator range (adjustable) | 0– 15 dB |
| - step size | 0,5 dB |
| - equalizer range (adjustable) | 0– 15 dB |
| - step size | 0,5 dB |
| - amplitude response (O-E) | ≤ ± 0,5 dB |
| - equivalent noise input | ≤ 4,0 pA /√Hz |
| - distortion products for CENELEC 42 Ch. @90 dBuV, flat | |
| CSO | ≥ 70 dB |
| CTB | ≥ 75 dB |
| - distortion products for CENELEC 42 Ch. @93 dBuV, 9 dB slope | |
| CSO | ≥ 70 dB |
| CTB | ≥ 75 dB |
| - RF test points | -20 dB |

3. General specifications

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|-------------------------|--|
| - RF connectors | F |
| - supply voltage | 12 V DC |
| - power consumption | tbd |
| - operating temperature | -5°... +45°C (EN300 019-1-3 Class 3.2) |
| - dimension B x H x T | 30 x 133 x 320 mm |

4. Management functionality

- monitoring:
- opt. input power

- adjustment:
- | | |
|--------------|-----------|
| - attenuator | 0 - 15 dB |
| - equalizer | 0 - 15 dB |

- Alarms/ Warnings: optical input power too high / low
 ALC range limit

All alarm / warning thresholds are variable