



# Optical nodes

## Optical receivers

- very compact optical receivers for cost sensitive installations with extended frequency range 1002 MHz (OD004 - frequency range 2400 MHz)
- electronic setting of all parameters
- AGC based on optical input level
- digital indication of optical input level and other parameters
- connectors:  
RF output - type F  
optical - SC/APC

**CABRIOLINE**



Technical specifications		OD003
TYPE		
Ordering number		02843
Optical input	optical wave length	1100-1600 nm
	optical input level (AGC range)	-10 ...-3 dBm
	optical return loss	> 40 dB
	noise current density	≤ 8.0 pA/√Hz
RF output	frequency range	47-1002 MHz
	impedance	75 Ω
	return loss	≥ 16 dB at 40 MHz-1.5 dB/oct
	frequency response	± 0.75 dB
	output level (AGC controlled, 4.9% OMI)	80 dBμV
	output level CTB (EN50083-3)	85 dBμV (42 ch.)
	output level CSO (EN50083-3)	82 dBμV (42 ch.)
	interstage attenuator <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">pr.</span>	0-15 dB by 1 dB step
Power consumption		230 V~ 50/60 Hz 4 W
Operating temperature range		-20° ÷ + 50° C
Dimensions/Weight (packed)		133x73x39 mm/0.36 kg

pr. software control

Technical specifications		NEW
TYPE		OD004
Ordering number		02846
Optical input	optical wave length	1100-1600 nm
	optical input level (AGC range), switchable	-15 ÷ -6 / -8 ÷ 0 dBm
	optical return loss	> 40 dB
	noise current density	≤ 7.0 pA/√Hz
RF output	frequency range	47-2400 MHz
	impedance	75 Ω
	return loss	≥ 14 dB at 40 MHz -1.5 dB/oct (47-950 MHz); ≥ 10 dB up to 1750 MHz; ≥ 7 dB up to 2400 MHz
	frequency response	± 1.5 dB
	gain adjustment (manual control mode)	31 dB by 1 dB step
Output level* (AGC range),	-8 ÷ 0 dBm	78 dBμV
optical input level	-15 ÷ -6 dBm	80 dBμV
Output level* (CTB, EN50083-3)		90 dBμV
Output level* (CSO, EN50083-3)		83 dBμV
Max. output level IMD3=60 dB, 2 carries, 2150 MHz, Δf=10 MHz		104 dBμV
Power consumption		230 V~ 50/60 Hz 4 W
Operating temperature range		-20° ÷ + 50° C
Dimensions/Weight (packed)		133x73x39 mm/0.36 kg

\* optical input signal 4.9% OMI, 1310 nm

