

## Micro optical receiver

### MOB-100



RoHS



Micro optical receivers **MOB-100** are the modern devices dedicated for FTTH (*Fiber To The Home*) applications. This device is made in die-cast metal housing and can be mounted in plastic housing "mouse" type. Receiver is equipped with SC/APC input connector and one RF output with "F" female connector. Optical receiver is also equipped with LED 3-stage optical input power indicator.

Simple construction of this receiver guarantee significant investment and network maintenance cost reduction.

- Built-in AGC.
- Low noise amplifier made in a Push-Pull technology.
- 3-stage indicator of optical input power.
- Very low power consumption <1,0W.
- Solid die-cast aluminum housing.



Technical parameters may be changed without earlier notice

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## TECHNICAL SPECIFICATION

OPTICAL PARAMETERS		MOB-100
Input level range ( $P_{IN}$ )	dBm	-10...-3
AGC range	dBm	-10...-3
Optical return-loss	dB	$\geq 45$
Optical power indicator	dBm	Diode LED indicator: - orange: $P_{IN} < -10$ - green: $-10 < P_{IN} < -3$ - red: $P_{IN} > -3$
Optical input wavelength	Nm	1280...1600
Maximum input level	dBm	+3
Equivalent input noise current	$\text{pA}/(\text{Hz})^{1/2}$	<4
Optical connector	/	SC/APC
RF PARAMETERS		
Frequency range	MHz	40-862
Gain characteristic flatness	dB	$\pm 1,0$
AGC efficiency in range -10...-3dBm	dB	$\pm 1$
C/N factor for input power -3dBm and OMI 3,5%	dB	52
Max. output level (42 channels CENELEC) - CTB, CSO $\leq 60$ dBc	dB $\mu$ V	80
Output connector	/	F
Output impedance	Ohm	75
OTHER		
Operating voltage (external power supply)	V DC / mA	9 / 150
Power consumption	W	< 1,0
Operating temperature	$^{\circ}\text{C}$	-20...+55
Output connector	/	F
Protection class	/	IP40
Weight without power supply	kg	0,1
Dimensions	mm	620 x 320 x 190

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