

Optical receiver with AGC



MOB-923A

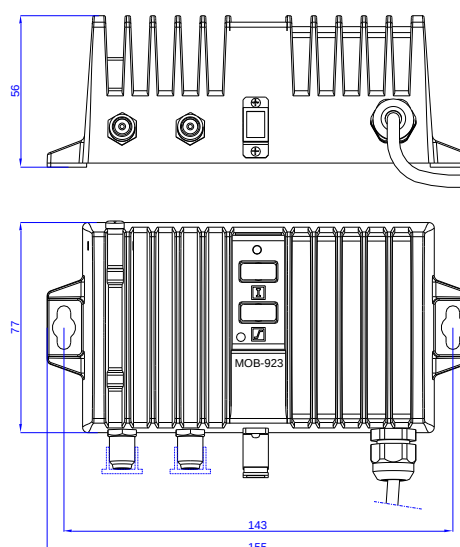


The **MOB-923A** with AGC function is modern optical receiver designed for FTTx application.

The unit is equipped with two sockets for JXP plug-in modules for output parameters configuration – gain and tilt control.

MOB-923A built-in diode LED indicator informs of input optical power level. The receiver has one optical input – SC/APC connector and one RF output – F female connector. Simple construction and easy configuration of the optical receiver, provides significant cost reduction and simplified maintenance in the modern HFC networks.

- Easy configuration - universal plug-in modules
- Built-in AGC
- Hybrid GaAs Push-pull technology
- 3 stages LED indication of input optical power level
- Very low power consumption – 5.5 W
- 3 kinds of overvoltage protection
- Switch Mode Power Supply (180-253 V_{AC})
- Aluminum housing

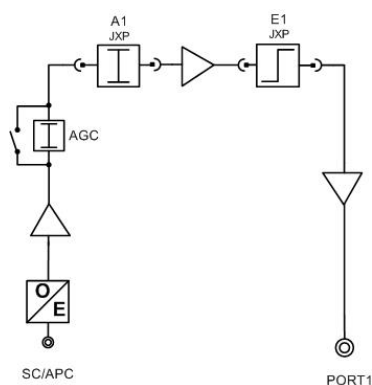


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TECHNICAL SPECIFICATION

NAME/ PARAMETERS		MOB-923A
OPTICAL PARAMETERS		
Input level range (P_{IN})	dBm	-10...+1
Working range AGC	dBm	-6...0
Optical return-loss	dB	≥ 40
Optical input wave length	nm	1100...1650
Max. input level (without damaging of photodetector)	dBm	3
Indicator of optical power	/	Diode LED indicator: - orange: $P_{IN} < -6$ dBm - green: $-6 < P_{IN} < 0$ dBm - red: $P_{IN} > 0$ dBm
Equivalent input noise current	$\text{pA} / (\text{Hz})^{1/2}$	8
Optical connector	/	SC / APC
RF PARAMETERS		
Frequency range	MHz	47...862
Gain characteristic flatness	dB	$\pm 0,75$
Equalizer adjustment range (EQU)	dB	0...15 (JXP plug-in), step 1
Attenuator adjustment range (ATT)	dB	0...15 (JXP plug-in), step 1
Max. output level (42 channels CENELEC), CTB ≤ 60 dBc, CSO ≤ 60 dBc	dB μ V	107
Return loss at RF output	dB	≥ 18 (40MHz) – 1,5dB / oct
Output connector	/	F female
Output impedance	Ohm	75
OTHERS		
Operating voltage	V_{AC} / Hz	180...253 / 50..60
Power consumption	W	5,5
Operating temperature	$^{\circ}\text{C}$	-20...+55
Protection class	/	IP20
Dimensions	mm	148x85x56
Weight	kg	0,76 (aluminum enclosure)
Package	/	carton box

BLOCK DIAGRAM



MOB-923A

Technical parameters may be changed without earlier notice

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