

RF OVER OPTICAL FIBER

OPTICAL TRANSMITTER



fibra óptica

ROT Series

1550 nm optical transmitter for use in FTTH. FTTx
PON. Triple-play and RF Overlay.

APPLICATION

Conversion of RF signals into amplitude-modulated optical signals for CATV HFC networks.

FEATURES

- Equipped with DFB laser. for very good linearity and high optical output power.
- Advanced multi-frequency RF predistortion technology ensures perfect CTB and CSO performance at high standard CNR value.
- Automatic gain control (AGC) enables stable output at different RF input levels.
- Different networks can be optimized by OMI adjustment.
- Automatic temperature control, which ensures a long service life of the device.
- Built-in dual backup power supply.
- Configuration of system parameters controlled by the front panel keypad or by the user-friendly web interface.
- A standard RJ45 interface is provided. which supports SNMP and WEB remote network management.
- LNB polarity selection by 0/13/18V power supply.



MODEL	ROT 510 S	
Reference	10403	
OPTICAL PARAMETERS		
Output power	dBm	10
Output wavelength	nm	1550
Laser linewidth		0.65
SMSR	dB	≥45
XP	dB	≥20
RIN	dB/Hz	≤-160
Optical return loss	dB	≥50
Fiber connector		SC/APC
RF PARAMETER		
Frequency Range	MHz	47-2150
Input level	dBμV	70...100
Flatness	dB	±0.75
CNR	dB	≥51
CTB	dB	≥65
CSO	dB	≥60
Return loss	dB	≥16
Input impedance	Ω	75
RF connector		F-female
OTHER PARAMETERS		
Max. current to LNB	mA	300
Network management interface		SNMP and WEB
Power supply	V	90 ÷ 265
Power consumption	W	≤30
Operating temperature	°C	-5 ÷ 55
Storage temperature	°C	-40 ÷ 85
Operating relative humidity	%	5 ÷ 95
Dimension	mm	370 × 483 × 44