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