

Fibre Optics

Optical transmitter 1310 nm for HFC networks

- Directly modulated and cooled high-performance DFB laser
- Automatic processor-controlled adjustment of the laser drive with regard to level and channel loading of various RF input signals produces the best transmission characteristics in terms of low intermodulation (CTB/CSO) and low noise
- Multichannel pre-distortion and GaAs amplifier technology also provide the best signal quality with low noise and low distortion
- 32-bit microprocessor for automatic monitoring and control of the laser ensures constant output level and long service life
- 19" 1 HE enclosure with 10TBase Ethernet (IEEE802.2) and RS 232 interface for external network monitoring
- Other output levels available on request
- RF connectors: F female
- Fibre optic connectors: SC/APC



Technical specification

Type		OTXS 06-1	OTXS 20-1
Art. No.		307507	307521
Optical output power	mW	6.0	20.0
Optical output power	dBm	8.0	13.0
RF input			
Frequency range	MHz	47 - 862	47 - 862
Level (84 PAL D channels)	dBμV	85 ±3	85 ±3
Test point (F-connector, front)	dB	-20	-20
Flatness in band	dB	±0.75	±0.75
Return loss	dB	>18	>18
Optical System			
Wavelength	nm	1310	1310
CTB (Non linear distortion) (Popt in = - 1 dBm, 84 PAL D channels)	dB	>65	>65
CSO (Non linear distortion) ((Popt in = - 1 dBm, 84 PAL D channels)	dB	>60	>60
C/N (Popt in = - 1 dBm, B=5MHz)	dB	>51	>51
Test point - RF input(F-connector, front)	dB	-20	-20
Laser type		DFB, temperature controlled	
Additional			
Monitoring interfaces		RS232 for software, RJ45 for LAN Ethernet	
Monitoring display	dot	160 x 32	
Input connectors (for RF)		F-Connector	
Fibre connectors (for fibre optic cable)		SC/APC	
Housing		19", 1 HE	
Power supply	VAC	110 – 253 (50 MHz)	
Dimensions (w x h x d)	mm	480 x 44 x 380	