

OPTICAL EXTERNAL MODULATED TRANSMITTER 1550 nm OT DWDM 1155-2-xx

Applications:

- Conversion of electrical CATV signals (QAM, AM-VSB, FM) into an optical signal
- Enables the usage of optical amplifier (EDFA) as booster or repeater in order to realize large FTTx networks
- Video overlays in FTTx networks and xPON-application

Features:



- Adjustable DFB Laser, variable in C-band from 1528.77nm to 1560.61nm
- Supports Dense Wavelength Division Multiplexing (DWDM)
- Wavelengths adjustable in an interval of 0.4 nm in C-Band
- High stability of the wavelengths
- Narrow spectrum of laser (0.3 MHz)
- Adjustable SBS-suppression of 13 to 19 dB in 0.1 dB steps
- Adjustable Optical Modulation Index (OMI)
- Automatic (AGC) or manual (MGC) control for laser management
- Outstanding CNR, CSO and CTB values
- Implemented microprocessor, LCD and LED status display
- SNMP and web-based monitoring for all parameters
- OMI, SBS, wavelength AGC and MGC remotely adjustable over WebGUI
- Redundant power supply
- Test socket: RF Test -20dB

Typ	Article number	Optical Output Power (dBm)	Number of Ports	Setting range (nm)
OT-DWDM-1155-02-09	5700 2428	9	2	1550.92 - 1554.14
OT-DWDM-1155-02-11	5700 2539	11	2	1550.92 - 1554.14

TECHNICAL SPECIFICATIONS

Data Sheet

Performance			Index		
			Min	Typ	Max
Optical Features	Input wavelength (λ)	nm			
	Full C-Band		1528.77		1560.61
	Partial C-Band		1550.92		1554.13
	Optical output power (at each output)	dBm	9		11
	Number of ports			2	
	Channels spacing	nm		0.4	
	Tuning speed	ms		20	
	SBS-threshold	dB	13	adjustable	19
	Side mode suppression ratio (SMSR)	dB	45	50	
	Relative intensity noise (RIN)	dB			-160
	Optical return loss			>45	
	Optical connector		SC/APC (further on request)		
RF Features	HF bandwidth	MHz	47 - 1000/1200		
	Input level	dB μ V	70 - 88		
	Frequency range	dB	± 0.75		
	CNR	dB	52.5 PAL-D/60 Ch. 65km Fiber, 0 dBm receiver		
	CSO, CTB	dB	<65		
	Input impedance	Ω	75		
General Features	SNMP network management			RJ45, LAN WebGUI	
	Power supply	VDC	± 36	± 48	± 72
	Power consumption	W			50
	Operating temperature	$^{\circ}$ C	-5	22	65
	Storage temperature	$^{\circ}$ C	-40		85
	Relative humidity	%	5	55	95
	Dimensions	mm		482 x 360 x 44	L x B x H