

AC 7700

Digital CWDM DFB laser transmitter module for Teleste AC9000 node return path applications.

- 18 available wavelengths
- Two return path inputs
- Two RF return paths on one optical carrier
- High optical output power
- Long link span
- Low power consumption
- Laser bias current monitoring
- Module identification

SPECIFICATIONS		
Light source		Uncooled DFB laser with optical isolator
Centre wavelengths available	nm	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610
Wavelength temperature coefficient	nm/°C	0.1
Spectral width	nm	0.3
Output power	dBm	+5
Transmission distance	km	75
Number of optical outputs		1
DIGITAL PARAMETERS		
Data rate	Gbps	5 in optical link
Analog to digital conversion	Bits	12
RF PARAMETERS		
Frequency range	MHz	5...65 or 5...85
Input level, AC9000 node	dBμV	60
RF impedance	Ω	75
Input return loss	dB	20
RF test point		See note
Number of RF inputs		2
SYSTEM PARAMETERS		
System consists of AC9000 node with AC7700, HDO272 and 75 km fibre.		
Link gain	dB	37
Flatness	dB	±0.75
CINR peak	dB	49
CINR dynamic range	dB	12 within 40 dB CINR window
Isolation	dB	49
GENERAL		
Supply voltage	V	12 / 340 mA
Power consumption	W	4
EMC compatibility		EN 50083-2
Operating temperature range	°C	-40...+55
Storage temperature range	°C	-30...+70
Dimensions	mm	75 x 62 x 34
Weight	g	130
Output connector		SC/APC, E-2000/APC or FC/APC