High Power Fiber Amplifier: HFA1550

Overview

As the all optical network's spread, especially FTTH construction high-tide's coming, ultra-high power fiber amplifier will play an increasingly important role in all optical network process continuously to extend and expand. HFA1550 series fiber amplifier adopts multi-mode pumping laser and double-clad Erbium/ Ytterbium co-doped technology, which makes fiber amplifier output power up to 37dBm(5000mW), in theory equivalent to 30pcs 20dBm EDFA, to fully drive the thousands of hundreds of user's requirement in large size FTTH distribution network.

Features

- 2U, 19″ standard cHFA1550ssis, easy to install.
- Ultra-high power output, up to 5W of total output power, one can carry 2000~4000 pcs optical nodes.
- Low noise figure, lower tHFA1550n 5.5dB in +5dBm input.
- Very low CSO deterioration: <-70 dBc
- 23dBm×N output, 20dBm×N or 17dBm×N output
- Large LCD display screen
- Intelligent Temperature Control System: adopts special temperature control chip, heat-dissipating and power consumption reduce by 30% compared with conventional products.
- 1310nm, 1490nm, 1550nm WDM（Optional）can be integrated.

Specifications

Items		Units	Technical parameters				
Operation wavelength		nm	1540～1565				
Input optical power range		dBm	-3～+10				
Output optical power		dBm	27	30	33	35	37
Output port No.			4, 8, 16, 32				
Noise figure (note 1)		dB	≤5.5			≤6.0	
Output power stability		dB	≤±0.2				
Return loss		dB	≥45				
Pumping leakage power	Input	dBm	≤-30				
	Output	dBm	≤-45				
Polarization related gain		dB	≤0.3				
Polarization membrane dispersion (PMD)		ps	≤0.5				
Optical connector type			SC/APC or LC/APC				
Power voltage		V	AC110～265（50~60Hz） or DC48V				
Power consumption		W	≤55			≤75	
Operation temperature range		℃	-5～+50				
Max. Operation relative humidity		%	Max. 85%, non-condensation				
Storage temperature range		℃	-40～+80				
Outer dimension		mm	483×440×88				
Net weight		Kg	8.45				