



OPTICAL AMPLIFIER HA-5800A

Feature

- 1540~1563nm operating bandwidth for optical amplifier
- Each output optical port is with built-in high performance CWDM, single fiber three wavelengths, which can save optical fiber resources largely.
- Simplified machine-room links, improve the system reliability, and largely reduce the network maintenance cost
- Can compatible with any FTTx PON technology: EPON/GEPON, GPON
- Total output power optional 500~5000mW (27~37dBm)
- 1U rack up to optional 16 up-link ports, which used in OLT; And 16 1550nm output optical ports, multiplex the 1310/1490nm data stream.
- Built-in low noise pre-amplifier, not necessary EDFA cascade, extremely lower the CNR, MER degradation of the system
- Low noise figure (Typ ≤ 4.5 dB, Max ≤ 5.5 dB)
- Perfect RS232 ,SNMP
- Telecom level safety reliability and network management
- Efficient space, simple and reliable in construction/maintenance
- Optional dual optical input, built-in 2 × 1 optical switch
- Dual power supply optional, 1+1 backup
- Can reduce the 98% device space usage
- Can reduce the 85% device purchase cost
- Can reduce 95% power consumption
- Industry's best price-performance
- FTTx PON
- FTTx PON
- RfOg

Performance		Index			Supplement
		Min.	Typ.	Max.	
CATV operation wavelength	(nm)	1540		1563	CATV
OLT pass wavelength	(nm)		1310/1490		
CATV pass wavelength loss	(dB)			0.8	1550nm
OLT pass wavelength loss	(dB)			0.8	1310/1490nm
CATV & OLT isolation	(dB)	40			
Number of uplink optical ports (for OLT)	(pcs)			16	
CATV input power (Pi)	(dBm)	-10		+10	
Total output power ¹⁾	(dBm)			37	
Number of output ports	(pcs)			16	
Each port output power	(dBm)	0		22	
Difference of each output power	(dB)	-0.5		+0.5	
Output optical power monitoring	(dB)		-20		
Output power adjustable range	(dBm)	-6		0	
Noise figure	(dB)		4.5	5.5	HA5800A-1x □□□□
			5.0	6.0	HA5800A-2x □□□□
Switch time	(ms)			8.0	HA5800A-2x □□□□
Polarization dependence loss	(dB)			0.3	
Polarization dependence gain	(dB)			0.4	
Polarization mode dispersion	(ps)			0.3	
Input/output isolation	(dB)	30			
Pump power leakage	(dBm)			-30	
Echo loss	(dB)	55			APC
Network management interface			RJ45		SNMP
Serial interface			RS232		
Power supply	(V)	90		265	220VAC
		30		72	-48VDC
Power consume	(W)			50	
Operation temp.	(°C)	-5		65	
Storage temp.	(°C)	-40		80	
Operation relative humidity	(%)	5		95	
Size (W)×(D)×(H)	(")	19×14.5×1.75			HA5800A (1U)

Model number	Total output power	Number of output port	Each port output power	Connector
HA5827A-1×008	27dBm (500mW)	8	16.0	SC/APC、LC/APC
HA5827A-2×008				
HA5828A-1×008	28dBm (630mW)	8	17.0	SC/APC、LC/APC
HA5828A-2×008				
HA5829A-1×008	29dBm (800mW)	8	18.0	SC/APC、LC/APC
HA5829A-2×008				
HA5830A-1×008	30dBm (1000mW)	8	19.0	SC/APC、LC/APC
HA5830A-2×008				
HA5830A-1×016	31dBm (1260mW)	16	15.5	LC/APC
HA5830A-2×016				
HA5831A-1×008				
HA5831A-2×008	31dBm (1260mW)	8	20.0	SC/APC、LC/APC
HA5831A-1×016				
HA5831A-2×016				
HA5832A-1×008	32dBm (1600mW)	16	16.5	LC/APC
HA5832A-2×008				
HA5832A-1×016				
HA5832A-2×016	32dBm (1600mW)	8	21.0	SC/APC、LC/APC
HA5833A-1×008				
HA5833A-2×008				
HA5833A-1×016	33dBm (2000mW)	16	17.5	LC/APC
HA5833A-2×016				
HA5833A-1×008				
HA5833A-2×008	33dBm (2000mW)	8	22.0	SC/APC、LC/APC
HA5834A-1×016				
HA5834A-2×016				
HA5834A-1×008	34dBm (2500mW)	16	18.5	LC/APC
HA5834A-2×008				
HA5834A-1×016				
HA5834A-2×016	34dBm (2500mW)	8	23	SC/APC、LC/APC
HA5835A-1×008				
HA5835A-2×008				
HA5835A-1×016	35dBm (3200mW)	16	19.5	LC/APC
HA5835A-2×016				
HA5835A-1×008				
HA5835A-2×008	35dBm (3200mW)	8	24	SC/APC、LC/APC
HA5836A-1×016				
HA5836A-2×016				
HA5836A-1×008	36dBm(4000mW)	16	21.5	LC/APC
HA5836A-2×016				
HA5837A-1×008				
HA5837A-2×008	37dBm(5000mW)	8	26	SC/APC、LC/APC
HA5837A-1×016				
HA5837A-2×016				
HA5837A-2×016	37dBm(5000mW)	16	22.5	LC/APC