



OPTICAL AMPLIFIER HA-5100

Feature

- 1540~1563nm operating bandwidth
- Low noise, high output, high reliability
- APC, ACC, ATC controlled selection (HA5100/P)
- Powerful RS232 supervisory instruction
- Three exterior option: 1U (19" stander), 3D (12.4", 3U, Desk-type) and modulator
- 1U and 3D exterior, offering status appearance and diagnosing fault with LCD, standard RS232 communication interface, SNMP network management function
- Application of 3D models to adapt to laboratory
- Excellent P/P ratio in area
- AM CATV
- Digital CATV
- DBS & MMDS
- FTTP
- FTTx PON
- Laboratory application

Performance		Index			Supplement	
		Min.	Typ.	Max.		
Optical feature	Operating wavelength (nm)	1540		1563	CATV	
	Input power (dBm)	-10	+3	+10		
	Maximum output (dBm)	+10		+26	Pin=0dBm	
	Output power (dBm)	-6		0	HA5100/P	
	Number of output ports		1		8	SC/APC
			1		16	LC/APC
	Difference of each (dBm)	-0.5		+0.5		
	Noise figure (dB)			6.3	HA5100-26	
	Polarization (dB)			0.3		
	Polarization (dB)			0.4		
	Polarization mode (ps)			0.5		
	Input/output isolation (dB)	30				
	Pump power leakage (dBm)			-30		
	Echo loss (dB)	55			APC	
General feature	SNMP network	RJ45				
	Serial interface	RS232				
	Power supply (V)	90		265	220VAC	
		30		72	-48VDC	
		23		25	+24VDC	
	Power consume (W)			50		
	Operating temp. (°C)	-5		65		
	Storage temp. (°C)	-40		80		
	Operating relative (%)	5		95		
	Size (W)×(D)×(H)	(")	19×14.5×1.75		1RU (19")	
(")		12.4×15.4×5.25		3D (12.4", desk-type)		
(mm)		150×125×22		Modulator		

Model	Output power Max (dBm) Pin=0dBm	Noise figure (dB) Pin=0dBm	Input power range (dBm)			Function
			Min.	Typ.	Max.	
HA5113/ON	≥13	4.0	-10	0	+10	With SNMP network management, output power is not adjustable
HA5114/ON	≥14	4.1				
HA5115/ON	≥15	4.2				
HA5116/ON	≥16	4.3				
HA5117/ON	≥17	4.5				
HA5118/ON	≥18	4.8				
HA5119/ON	≥19	5.0				
HA5120/ON	≥20	5.3				
HA5121/ON	≥21	5.5				
HA5122/ON	≥22	5.8				
HA5123/ON	≥23	6.0				
HA5124/ON	≥24	6.3				
HA5125/ON	≥25	6.5				
HA5126/ON	≥26	6.8				
HA5120/PN	≥20	5.3	-10	0	+10	With SNMP network management, the output optical power adjustable 0~-6dB
HA5121/PN	≥21	5.5				
HA5122/PN	≥22	5.8				
HA5123/PN	≥23	6.0				
HA5124/PN	≥24	6.3				
HA5125/PN	≥25	6.5				
HA5126/PN	≥26	6.8				

Remark: Output power can be customized by user