



OPTICAL FIBRE AMPLIFIERS

KOA4PX-15 / KOA8PX-15 / KOA16PX-15 / KOA32PX-15

KOA X series optical amplifiers are a low noise & high-performance multi-port EDFA, with built in CWDM. With a gain spectrum bandwidth of 1540~1563nm, each 1555nm (CATV's) output optical port can be optically multiplex with the corresponding 1270/1310/1490/1577nm (GPON & XGS-PON) carrier OLT PON input data stream to reduce the number of components and improve the reliability of the system.

The optical amplifiers can be made to be compatible with any FTTx PON Technology. The range offers a flexible and low-cost solution for fibre to the home with multi-service integration (video/voice/data).

The optical amplifiers have a very low noise figure and the units adopt twin-stage amplification. The optical amplifier uses a premium top class pump laser and active optical fiber and the laser will switch off automatically if optical power is missing, which offers protection for the laser. With an excellent design in the ventilation and heat-dissipation, it will ensure the long life and high reliable work of the pump laser. RS232 and RJ45 offer serial commutation and SNMP network management port.

FEATURES

CATV Input: 1 Port

OLT Input/Output: Available in 4, 8, 16 or 32 Port models

CATV Operating Wavelength: 1540~1563nm

OLT Pass Wavelength: 1270/1310/1490/1577nm

Output Power: 15.5dBm Each Port

Input Power Range: -10 to +10dBm

SNMP Management Interface

Dual Power Supply, 1 + 1 backup

Built-in low noise pre-amplifier

Size: 1RU 19" Rack Mountable (4, 8 & 16 port models)

Optical Connections: SC/APC



PRODUCT SPECIFICATIONS

PERFORMANCE			INDEX			SUPPLEMENT
			MIN.	TYP.	MAX.	
OPTICAL FEATURES	CATV Operation Wavelength	(nm)	1540	1555	1563	CATV
	OLT Pass Wavelength	(nm)		1270/1310/1490/1577		
	CATV Pass Wavelength Loss	(dB)			0.8	1550nm
	OLT Pass Wavelength Loss	(dB)			0.8	1270/1310/1490/1577nm
	CATV & OLT Isolation	(dB)	40			
	Number of Uplink Optical Ports (for OLT)	(pcs)	4		16	1RU
					32	2RU
	CATV Input Power	(dBm)	-10		+10	
	Total Output Power	(dBm)			37	
	Number of Output Ports	(pcs)	4		16	1RU
					32	2RU
	Each Port Output Power	(dBm)			15.5	
	Difference of each Output Power	(dB)	-0.5		+0.5	
	Noise Figure	(dB)		5.0	6.0	
	Switch Time	(ms)			8.0	
	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	
GENERAL SPECIFICATIONS	Network Management Interface		RJ45			SNMP
	Power Supply	(V)	100		240	220VAC (Dual Supply)
	Input Current	(A)			0.7	
	Power Consumption	(W)			50	1RU
					84	2RU
	Operation Temperature	(°C)	-5		+50	
	Storage Temperature	(°C)	-40		+80	
	Relative Humidity	(%)	+5		+95	
Size (W)×(D)×(H)	(")	19 × 14.5 × 1.75			4, 8 & 16 Port	
		19 × 14.5 × 3.5			32 Port	

Specifications are subject to change without notice, they are issued as a guide only and shall not form part of any contract without the express written authorisation of GME.

