



## Technical Specification

# Erbium Doped Fiber Amplifier EDFA 1550nm

## TKS-EDFA-20/23



Sofia, 2015

## Product Description

TKS-EDFA series 1550nm optical fiber amplifier is the important optical relay transmission equipment in 1550nm optical fiber communication system. It mainly used for the long distance optical fiber transmission of TV image signal, digital television signal, telephone voice signal and data (or compressed data) signal. This product is based on the high-performance erbium doped fiber and low noise pump laser, and built-in perfect embedded automatic monitoring system, to ensure the excellent performance indicators.

## Performance Characteristics

- Automatic control the output optical power.
- The output optical power adjustable attenuation range is 0-3dB.
- Adopt high-performance erbium doped fiber, high efficiency energy conversion.
- Due to the 32-bit processor and integrated high-precision monitoring system timely and accurately monitoring of the optical output power and the operating mode of the pump laser are ensured.
- Built-in blue LCD 160×32 display on the front panel, accurately showing all working status parameters.
- 19 1U height standard rack mount, equipped standard IEEE802.3 10Base-T Ethernet interface and RS232 interface, can expediently realizes network management monitoring.
- Full support <GB/T 20030-2005HFC Network device management system specification>.

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Item	Unit	Technique parameter	
Operating Bandwidth	nm	1535 - 1565	
Input Optical Power Range	dBm	-3 ÷ +10	
Output Optical Power	dBm	Up to 24	
Output Power Stability	dBm	±0.2	
Noise Figure	dB	5.0 @ 0dBm optical input power	
Return Loss	Input	dB	45
	Output	dB	45
Pump Leakage Power	Input	dBm	-30
	Output	dBm	-30
Optical connector type		SC/APC	
Power supply voltage	V	AC 160- 250V (50 Hz)	
Power Consumption	W	< 30	

Operating Temperature Range	°C	5 to +55
Maximum Operating Relative Humidity	%	Max 95% No Condensation
Storage Temperature Range	°C	-30 to +70
Maximum Storage Relative Humidity	%	Max 95% No Condensation
Dimension WxDxH	mm	483 x 340 x 44



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