# TKS-POA

## High Power Optical Amplifier with integrated PON Combiner

### 8 ports x 19 dBm, 16 ports x 19 dBm, 16 ports x 21 dBm

## Product Description

TKS-POA series is multi-port optical amplifier that provides high optical power at each output and the possibility for combining of the signals from xPON equipment (1310 and 1490nm) and the broadband CATV signal. This amplifier is especially designed for application in GePON and GPON networks.



## Application

- Single-mode fiber 1550 amplification network
- FTTH network
- CATV network

## Performance Characteristics

- Adopts Er-Yb co-doped double-clad fiber technology;
- Output ports: 4-32 optional;
- Optical output power: total output up to 2W;
- Low noise figure: < 5dB when input is 0dBm;
- Perfect network management interface, in line with standard SNMP network management;
- Intelligent temperature control system make the power consumption lower;
- Output power: 0-3dB adjustable.

## Technical Specification

| Item | | Unit | Technique parameters | Remark |
|---|---|---|---|---|
| Operating Bandwidth | | nm | 1545 - 1565 | |
| Optical Input Power Range | | dBm | -13 | |
| Maximum Optical Output Power | | dBm | 34 | |
| Output Power Stability | | dBm | ±0.5 | |
| Noise Figure | | dB | 5.0 | Optical input power 0dBm, =1550nm |
| Return Loss | Input | dB | 45 | |
| | Output | dB | 45 | |
| Optical Connector Type | | | SC/APC | |

| | | | |
|---|---|---|---|
| C/N | dB | 50 | Test condition according to GT/T 184-2002. |
| C/CTB | dB | 63 | |
| C/CSO | dB | 63 | |
| Power Supply Voltage | V | A: AC160V - 250V (50 Hz) | |
| Operating Temperature Range | °C | -52 | |
| Maximum Operating Relative Humidity | % | Max 95% No Condensation | |
| Storage Temperature Range | °C | -100 | |
| Maximum Storage Relative Humidity | % | Max 95% No Condensation | |
| Dimension | mm | 483(L) x 440(W) x 88(H) | |