



# TKS1000OR-PON

## FTTH PON Optical Receiver

### Product Description

TKS1000OR-PON is an optical receiver which is specially designed to be applied in PON networks where CATV and data are separately processed. This device ensures high quality of CATV signals and low loss of passed 1310/1490nm signals used in PON. It is placed in compact metallic housing with reasonable internal circuit structure for excellent performance.

### Features

- 1003MHz bandwidth design.
- Normal work up to -10dBm
- Low insertion loss for passed PON signals
- 5V DC voltage power supply, low power consumption



### Technical Specification

Item	Unit	Technical Parameter	
Optical Parameters			
Optical Receiving Power	dBm	-15 ~ +2	
IL @ 1310/1490nm	dB	0,5	
Optical Return Loss	dB	> 45	
Optical Receiving Wavelength	nm	1550nm	
Optical Connector Type		SC/APC	
Fiber Type		Single Mode	
Link Performance			
C/N	dB	≥ 46	@ Pin= -6dBm, 84CH PAL-D, OMI=3.8%
C/CTB	dB	≥ 62	
C/CSO	dB	≥ 62	
RF Parameters			
Frequency Range	MHz	45~1003	
Flatness in Band	dB	±0.75	
Output Level	dBμV	≥ 78 @ -6dBm	
Output Return Loss	dB	≥ 16	
Output Impedance	Ω	75	
Consumption	W	< 3	
Operating Temperature	°C	-20 - +55	
Dimension	mm	109 x 80 x 26	

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