

Technical Specification

Passive Optical Node With Wdm



JP-1000W



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1.0 Product description

JP-1000W CATV converter for digital television, fiber to the home. This machine adopts the high sensitivity optical receiving tube, without power supply, no power consumption. When the input optical power output level $P_{in}=-1dBm$, $V_o=68dBuV$, economic, flexible application integration, application of fiber to the home network. There are five kinds of model selection:

JP-1000W: Built-in CWDM, suitable for single-fiber triple wavelength system, CATV operating

Wavelength 1550nm, pass wavelength 1310/1490nm, can conveniently connect the ONU of EPON, GPON.

2.0 Product feature

1. No Power required
2. Work bandwidth 45~1050MHz
3. Output Level=68dB μ V ($P_{in}=-1dBm$)

3.0 Main application

1. CATV FTTH
2. Integration of three networks
3. FTTH PON

4.0 Technique index

| | Optic feature | Unit | Index | Supplement |
|--------------------|-------------------------|---------|---------------|------------------------|
| Optic feature | CATV Work wavelength | (nm) | 1540~1563 | JP-1000W |
| | Pass wavelength | (nm) | 1310~1490 | JP-1000W |
| | Channel Isolation | (dB) | ≥40 | 1550nm&1490nm |
| | Response | (A/W) | ≥0.85 | 1310nm |
| | | | ≥0.9 | 1550nm |
| | Receiving power | (dBm) | +2~-14 | |
| | Optical return loss | (dB) | ≥55 | |
| | Optical fiber connector | | SC/APC | |
| RF Feature | Work bandwidth | (MHz) | 45~1050MHz | |
| | Output level | (dBμV) | >68 | Digital TV (Pin=-1dBm) |
| | Return loss | (dB) | ≥14 | 47~862MHz |
| | Output impedance | (Ω) | 75 | |
| | Output port number | | 1 | |
| | RF tie-in | | F-Female | |
| Digital TV Feature | OMI | (%) | 4.3 | |
| | MER | (dB) | ≥38 | Pin=-1dBm |
| | | | ≥30 | Pin=-13dBm |
| BER | | <1.0E-9 | Pin:+2~-14dBm | |
| General | Work temp | (°C) | -20~+55 | |
| | Storage temp | (°C) | -40~85 | |
| | Work relative temp | (%) | 5~95 | |