

PROFESSIONAL NODE / AGC NODE



Spec optical receiver adopts superior amplifier module and photoelectric conversion device; through a well-designed circuit, its index properties can meet the requirements of large and medium-sized city HFC network construction. Professional series optical receivers have two or four RF outputs, which can be selected by the user according to their needs. Each RF output port is installed with an over-current fuse and discharge tube for the AC power supply protection and prevention of lightning. Professional series optical receiver improves the link indicators as well as the RF output level, providing convenience for update of HFC network. Each RF port of the receiver can be used for return, and users can choose reverse channel bandwidth.

FEATURES

- Optical detector with low noise and high sensitivity is used in the part of optical receiving. GaAs RF power module is used for RF amplification gives noise free RF output to maintain high level signal upto 108 dBμv. Specific modules will be used according to user's requirement.
- Complete covering frequency range (40 to 862 Mhz) with very linear flatness is achieved with 20db gain control and 20db slope control.
- External two way switch is provided for selecting as a RF amplifier without adding noise at high output level.
- Perfect status monitoring circuit for input optical power [Digital & LED bar based] is incorporated with these model. It is suitable for front-end optical management to last-end optical management.



TDN-99 SAL

TECHNICAL PARAMETERS

| ITEMS | UNITS | TECHNICAL PARAMETER | |
|-------------------------------|-------|--|---------|
| | | PROFESSIONAL | ECONOMY |
| OPTICAL PARAMETER | | | |
| Received Optical Power Range | dBm | - 12 ~ + 2 | |
| Recommended Range | dBm | - 4 ~ +1 | |
| Optical Return Loss | dB | >45 | |
| Optical Receiving wave length | nm | 1100 ~ 1600 | |
| Optical Fiber Connector Type | | FC/APC, SC/APC (or specified by the user) | |
| LINK PERFORMANCE | | | |
| C/N | dB | ≥ 51 | |
| C/CTB | dB | ≥ 65 | |
| C/CSO | dB | ≥ 60 | |
| RF PARAMETER | | | |
| Nominal Output Level | dBμv | ≥ 108 | |
| Maximum Output Level | dBμv | ≥ 112 | |
| Output Return Loss | dB | ≥ 16 | |
| Frequency Range | MHz | 45 ~ 870 | |
| Flatness in Band | dB | ± 0.75 | |
| Output Impedance | Ω | 75 | |

SPEC AGC NODE designed with fully aluminium body has high sensitivity AGC module which is very accurate in performance & sensitive with optical conversion. Accurate professional design is used for RF amplification. Specific modules can be used according to user's requirement.

FEATURES

- AGC module is used for optical to RF conversion. it has very accurate AGC controlled circuit.
- RF amplification is linear and better. Low distortion and proper heat dissipating capacity.
- RF Output level will be unchanged due to AGC module even optical input variation.
- Displayed optical power monitoring system.



HAN-98-MS

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