CATV Optical Transmitters

MODEL **NE1000**
1310 nm CATV TRANSMITTER

MODEL **NE1000L**
1310 nm CATV TRANSMITTER

MODEL **NE5000L**
1550 nm CATV OPTICAL TRANSMITTER

- 45 – 870 MHz Operation
- Return Path Transmitters
- Power Ranges from 4 – 20mW
- Automatic Gain Control Using Pilot Carriers
- Highly Stable Output
- Network Management Capability
  RS485 Control Interface
- LCD Display
- Patented Pre-distortion Circuitry
  Low-Distortion Performance
  High CNR

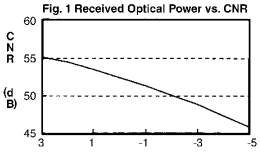
Transmitter Models NE1000

Optical

Wavelength	1310 ±20 nm
Output Power	4, 6, 8, 10, 13, 16, 20 mW
Return Loss	>60 dB
Connectors	FC/APC, SC/APC. E2000/APC

Link Performance

CSO	<-64 dBc
CTB	<-68 dBc
Bandwidth	45 – 750/870 MHz
Flatness	±.75 dB



RF Parameters

Input Range	15 – 25 dBmV
Gain Control Range	10 dB
Return Loss	>16 dB

Physical

Dimensions	19" x 1-3/4" x 13"
Weight	10 lbs
Operating Temperature	0° to +50°C

Transmitter Models NE5000L

Optical

Wavelength	1550 ±10 nm
Output Power	≥7 dBm
Laser RIN Noise Density	≤-160 dB/Hz
SBS Suppression Threshold	13, 16, and 18 dBm
Return Loss	>60 dB
Output Ports	2
Connectors	FC/APC, SC/APC. E2000/APC

Link Performance

CSO	≤-65 dBc @ Port 1 ≤-63 dBc @ Port 2
CTB	<-65 dBc
Bandwidth	45 – 870 MHz
Flatness	±.75 dB

RF Parameters

Input Range Broadcast Port	15-25 dBmV
Input Level Narrow Port	45 dBmV
Gain Control Range	10 dB
Return Loss	>16 dB

Physical

Dimensions	19" x 1-3/4" x 13"
Weight	13 lbs
Operating Temperature	0 to +50°C