



High Performance Butterfly Laser FU-48SDF-x33Mxx

This module has been developed specifically for CATV forward path application. The new InGaAsP DFB laser chip offers better pre-distortability because of flat CSO characteristic (-55 dB typ) and has an emission wavelength of 1310 nm. It is equipped with an internal isolator (23 dB min) and has also a thermal electric cooler (TEC) on board. For different distances there are various options with optical output power reaching from 9 dBm up to 13 dBm.

FU-x50SDF Series / Mini-Coax Laser

The series of ultra small lasers with a diameter of 4mm and just 27 mm length was designed for a variety of applications at 1310 and 1550nm windows, including 8 CWDM channels.

All series are including a monitor photodiode and an internal isolator which provides an isolation of up to 30 dB. The output power of up to 4mW (typ) can be achieved over a temperature range of up to -20 to +85degC.

The series for digital long haul applications can be driven up to 2.5Gbps (STM-16).

For analog applications like repeaters or CATV return path, the lasers show a relative intensity noise (RIN) of just -155dB/Hz over temperature range.

Features:

- low cost
- small size
- -5 to +85degC operating temp
- 8ch CWDM available

Applications:

- CATV
- repeater
- SDH/SONET

2.5G Avalanche Photodiode PD (incl. TIA)

FU-319SPA-x6M2x is InGaAs avalanche photodiode module with SiGe preamplifier, designed for use in highspeed, long haul optical communication systems.

Features:

- High-sensitivity (-33dBm typ)
- 5pin coaxial package
- Built-in +3.3V TIA
- Differential output (50 Ω)

Applications:

- 2.5Gbps optical receiver (OC-48, STM-16)
- Extended reach datacom and telecom applications
- Long haul optical communication systems
- FEC rate systems