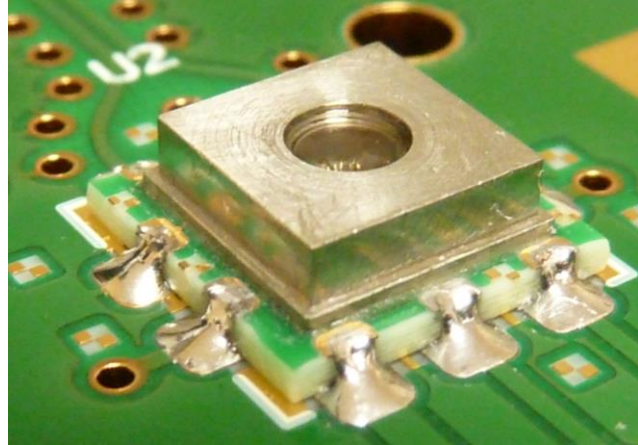




F-Light FLT-500-IL-D03 850nm Free-space short distance optical transmitter

Features

- Up to 5 Gbps
- Uses 850 nm VCSEL
- Complies with IEEE Std. 802.3z Gigabit Ethernet 1000 Base-Sx PMD and ARINC 804 requirements
- Controls and monitors for better link reliability
- Industrial working temperature range [-40;+85°C]
- Standard electrical SMT interface
- Optimized for short distance and Board to board communication
- Vibration tolerant
- Low power consumpt° (~160 mW)



Applications

- Severe environment interconnects
- Sensors interconnects
- Digital video transmission
- Board-to-board communications
- Datacommunications (LAN, SAN)
- On-board communications

Product Description

F-Light FLT-500-IL-D03 optoelectronic module is enhanced performances transmitter optimized for high data rate short distance Free-space optical (FSO) communications. It is protocol independent and can be applied to Gigabit Ethernet, Fibre Channel, Infiniband or any specific communication application. The F-Light family is optimized for Free-space communication and complies with AEEC / ARINC 804 transceiver specifications.

FLT-500-IL-D03 module integrates state-of-the art 850-nm AlGaAs VCSEL chips and low power consumption CMOS electronics. The transmitter FLT-500-IL-D03 should be aligned with the FLR-500-IL-D03 receiver within tolerances of +/-1mm and +/- 1°. Link is vibration and angular alignment tolerant within the typical rack mount environment.

