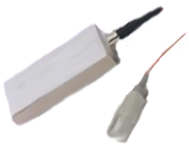
1103 APD (Avalanche Photo Diode)

SRC-48-LR



OC-48/STM-16 Receiver with Clock Recovery

The SRC-48-LR modules are receivers designed to meet or exceed the SONET/SDH optical interface requirements at°C-48/STM-16 (2.488 Gb/s) data rate. This Long Reach (LR) version uses InGaAs avalanche photodiodes (APDs) to achieve high sensitivity. The long reach receiver features a low noise GaAs transimpedance IC with AGC capability to provide an extremely wide dynamic range.

FEATURES

- Fully Compliant with SONET/SDH°C-48/STM-16 (2.5 Gb/s) Specifications
- Long Reach 1310 nm & 1550 nm as well as Intermediate Reach and Short Reach
- Internal Temperature-compensated High Voltage APD Supply (Long Reach Version)
- -40°C to +85°C Operating Temperature (Intermediate Reach and Short Reach)
- 24-pin DIP Metal Package
- FC, ST, SC-connectorized Fiber Pigtails
- Differential DATA & CLOCK Interface
- TTL SIGNAL DETECT Output
- Received Optical Power Monitor Function
- Single +5 V Supply

Receiver Configuration	InGaAs APD+Pre-amp
Spectral Response Range	1100 nm to 1600 nm
Sensitivity	-32 dBm typ. @10e-10 BER
Output Voltage	2.7 V to VCC (High); 0 to 0.7 V (Low)
Maximum Optical Input Power	-6 dBm min.
Output Coupling	Differential, Double-ended, 50 Ohm
Optical Return Loss	n/a
Package Type	24-pin Dual Inline (DIL)
Dimensions	60(L)x50(W)x9(H) mm
Fiber Type	SMF-28
Optical Connector	LC/UPC
RF Connector	Differential, Double-ended, 50 Ohm
Operation Temperature Range	-40°C to +85°C