

# PGR 5116

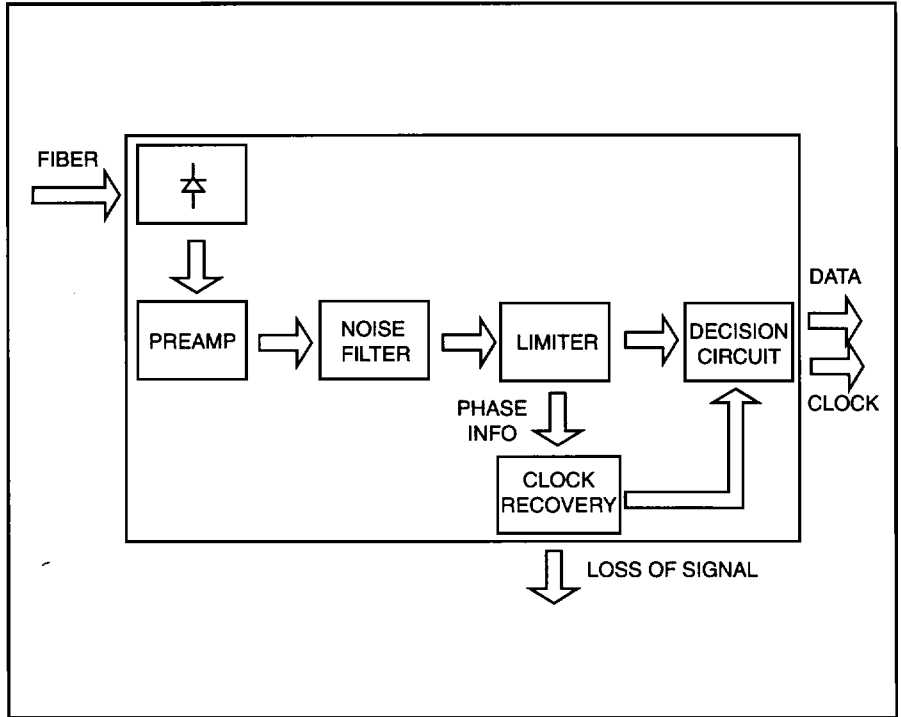
## Optical Receiver Module

### for STM-1 SH/OC-3 IR

The receiver module is intended for use at SDH and SONET bit rates. The receiver meet all present requirements in the ITU-T (G.957, G.958) and Bellcore (GR-253-CORE) recommendations.

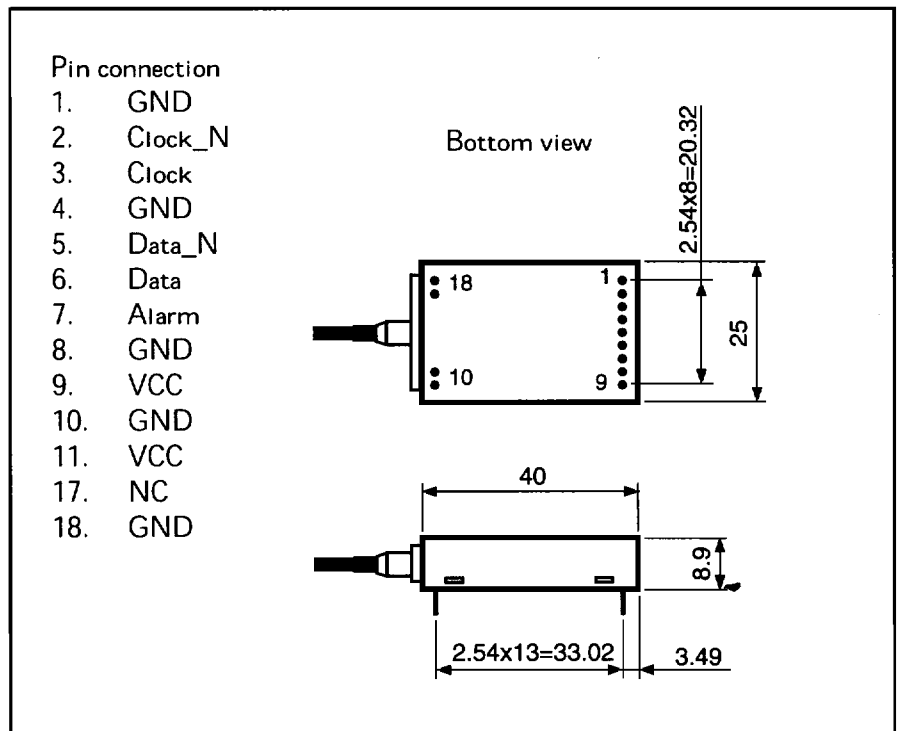
The receiver consists of a InGaAs PIN photodiode and a silicon IC. Preamplifier, noise filter, limiter, clock recovery and decision are performed on chip. The few external components and the advanced assembly technology minimize the size of the package and the power consumption. Alarm output for loss of signal according to SDH/SONET requirements.

Ericsson Components fiber optic products are qualified to Ericsson internal standards which use MIL-STD-883 test methods.



### Features

- Low power consumption
- Built-in clock recovery
- Small size (25x40x9 mm )
- Single +5V supply
- Alarm for loss of signal



**Optical and Electrical Specification**

Item	PGR 5116	Unit
Bit rate	155.52	Mbit/s
Operating wavelength	1260-1360/1480-1580	nm
Minimum sensitivity	-28	dBm
Minimum overload	-8	dBm
Optical path penalty	1.0	dB
Impedance	50	ohm
Output clock jitter	max 0.01	UI rms
Jitter bandwidth	max 130	kHz
Max jitter amplification	max 0.1	dB
Jitter tolerance	G. 958	ITU-T
Supply voltage	+5 ± 0.3	V
Power consumption	max 0.8	W
Operating case temperature	-40 to +85	°C

**Electrical Interface**

Output signals	Open collector outputs. Data and clock are differential outputs.
Loss of signal alarm	CMOS output, active high.
Wake up time (max)	200 ms.

**Quality Assurance**

Ericsson Components commitment to quality has been proved through a decade of semiconductor device production and has been confirmed to ISO 9001. These products are qualified according to the intention of Bellcore (TR-NWT-000468) and supplied with final test data.

**Connector Options**

FC/PC

SC

(Other connectors available on request)

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