

PGT 2120

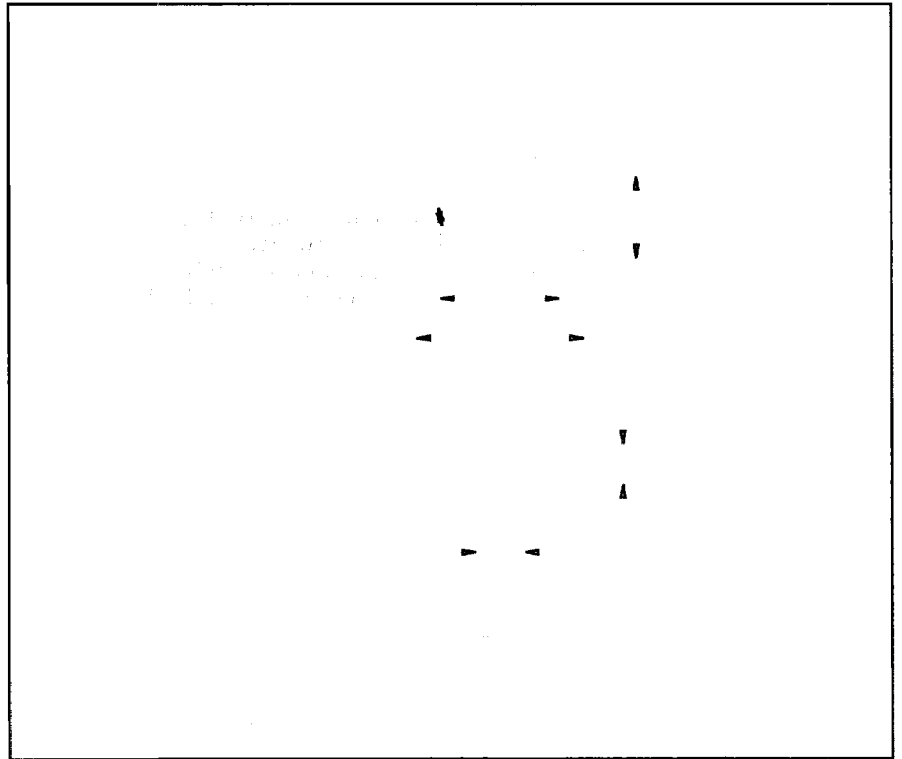
Compact Laser Transmitter

This compact 1300 nm laser transmitter is especially suited for FITL (Fiber In The Loop) and similar short and medium haul telecom applications.

The module includes a Buried Heterostructure InGaAs/InP Fabry Perot laser diode and InGaAs PIN back facet monitor diode.

Features

- Modulation capability up to 622 Mbit/s
- Wide operating temperature range -40 °C to +85 °C
- Low threshold current



Characteristic Values

T=25 °C unless otherwise stated.

Parameters	Conditions	PGT 2120/3R	Unit
Optical output power	$I_{TH} + 15 \text{ mA}$	>150	μW
Differential quantum efficiency		>0.01	W/A
Forward voltage	$P_O = 150 \mu\text{W}$	<1.5	V
Threshold current		<30	mA
Peak wavelength	$P_O = 150 \mu\text{W}$	1280-1330	nm
Spectral width	$P_O = 150 \mu\text{W}$	<4.3	nm
Rise and fall time		<1.0	ns
Bandwidth	Small signal	>400	MHz
Monitor current	$P_O = 150 \mu\text{W}$	>150	μA
Case operating temperature		-40 to +85	°C
Fiber type		Receptacle	

Absolute Maximum Ratings (T=25 °C)

Laser Reverse Voltage	$V_R < 2 \text{ V}$
Laser Diode Forward Current	$I_F < 150 \text{ mA}$
Photodiode Reverse Voltage	$V_R < 20 \text{ V}$

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.

Safety

The modules emit invisible light, which is harmful to human eyes.

Handling Precautions

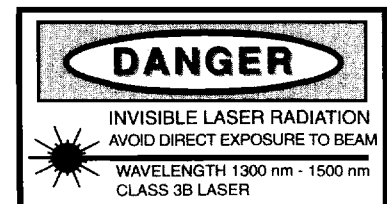
Normal handling precautions for electrostatic sensitive devices should be taken.

Connector Options

FC receptacle for single mode fiber.

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