

PMI-25G-L

OVERVIEW

PMI-25G-L is the InGaAs PIN photodiode with a low-noise transimpedance amplifier with auto gain control coupled to an optical fiber and packaged into a hermetic case

MAIN FEATURES

Maximum optical input power: 2 dBm

• Operation wavelength 1260 - 1360 nm

Data rate: 25 GbpsSensitivity: -14 dBm

· Package types: coaxial with or without bracket

APPLICATIONS

· Optical fiber communication systems

ORDERING INFORMATION

	PMI-25G-L - <u>X</u> -	<u>X</u> -13 -)	<u>X-X</u>	- <u>X</u>
Optical matching —		T	T	Ī
RM: optical matching				
One of the or				
Case type —————		_		
U: compact coaxial B: compact coaxial with double-side	ded bracket			
Fiber type —				
	F <u>-28 Ultra,</u> furcation tubing Ø0.9 mm or BSM1 Ø0. arCurve ZBL, furcation tubing Ø0.9 mm or BSM3 Ø			
Other type: on request	TOUTVE ZBE, Turcation tubing \$20.9 min or Boild \$	JU.25HIIII		
Connector type —				
FA: FC/APC (SM1,SM3, SMT)				
SA: SC/APC (SM1) N: no connector	SU: SC/UPC (SM1)			
Other type: on request				
Fiber length —				
0.5 : 500+/-50 mm				
1.0 : 1000+/-100 mm				

Version 23.1

Other length: on request



PMI-25G-L

ABSOLUTE MAXIMUM RATINGS

Parameter		Value	Unit	Conditions
Operating temperature	T _{op}	-40 ÷ +85	°C	
Storage temperature	T _{stq}	-40 ÷ +85	°C	
Soldering temperature	T _{sold}	260	°C	Max. 5 seconds

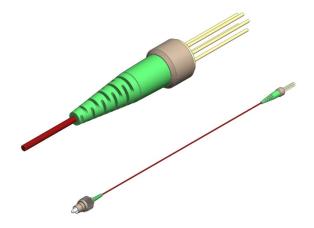
ELECTRICAL-OPTICAL CHARACTERISTICS (SM FIBER, λ = 1310 nm, T = 25 °C)

F	Parameter		Min	Тур	Max	Unit	Test conditions
Wavelength		λ	1260		1360	nm	
Return loss (F	RM)	RL	13			dB	
Operating vol	tage	V _{cc}	3.0	3.3	3.5	V	
Supply currer	nt	I _{cc}		29		mA	no load
Differential re	sponsivity	R _d		0.9		mV/μW	R_{load} = 100 Ω, P = - 10 dBm, λ = 1310 nm
Small-signal l	oandwidth	BW		17		GHz	
Low frequence	y cut-off	LF		100		kHz	
Rise/fall time		t_R, t_F		21		ps	P = -10 dBm, 20% - 80%, λ = 1310 nm
Saturation po	wer	P _{sat}	2			dBm	
Single-ended impedance	output	R ₀		50		Ω	
Sensitivity					-14	dBm	λ = 1310 nm, 25.78 Gbps, BER = 5e-5, PRBS31, ER = 4.3 dB
TIA RSSI	Slope			0.25		mA/mA	
	Offset			10		nA	
	Linearity Limit				2	mA	

TIA type: GN1086



PMI-25G-L



PACKAGE U

BACK VIEW

82° 02.54 82° 02.54 **PINOUT**

#13

1. Gnd

2. Dout

3.Vcc

4. Isource

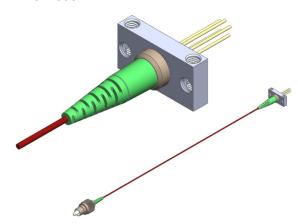
5. Dout

Download more information

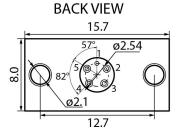








PACKAGE B



PINOUT

#13

1. Gnd

2. Dout

3. Vcc

4. Isource

5. Dout

Download more information







PHOTODIODE



PMI-25G-L

Characteristics, data, materials and structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.

Safety and handling cautions

- 1. Avoid smashing and burning of the module. Avoid storing and using the module in conditions where water, organic solvents or aggressive acids or bases may contact the module or where there is a possibility of exposure to corrosive gases, explosive gases, dust, salinity or other harsh conditions. The module should be disposed as special industrial waste.
- 2. Exceeding absolute maximal ratings even for a short time can cause permanent damage of the module.
- 3. The module is sensitive to and can be broken by ESD (static electricity).

Conflict Minerals Policy Statement

LasersCom LLC achieves business objectives and customer needs with social responsibility. We do not support or contribute to the violence and human rights violations associated with the mining of conflict minerals coming from Conflict Regions according to US "Dodd-Frank Act". When possible, our suppliers' conflict mineral statements are reviewed. We do not directly purchase Conflict Minerals from any source and do not knowingly procure any parts and products containing Conflict Minerals from Conflict Regions.

RoHS Compliance Statement

Restriction of Hazardous Substances (RoHS) directive (Directive 2011/65/EC amended with Directive (EU) 2015/863) is the directive aimed at reducing the harmful environmental impact of waste electrical equipment by restricting the use of known dangerous substances. Based on information received from our supply sources, LasersCom LLC hereby states that the banned substances listed in the RoHS directive are not found in the parts and materials used above the threshold level listed other than exceptions approved by the European Commission.

REACH Compliance Statement

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) is a European Union regulation 1907/2006/EC that addresses the production and use of chemical substances, and their potential impacts on human health and the environment. Based on information received from our supply sources, LasersCom LLC hereby states compliance of the parts and materials used in manufacturing to REACH regulation. LasersCom LLC does not manufacture or import any substances or preparations as defined under REACH.