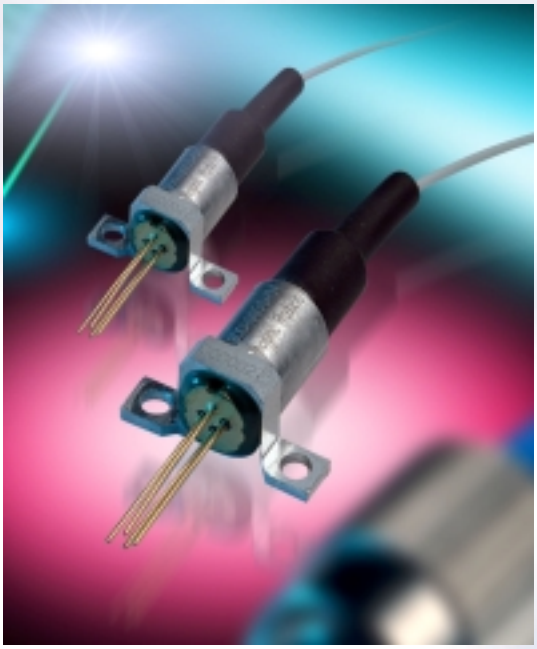

InGaAs Photodiode Pigtail Module

300-0100-00

Features

- 75µm InGaAs/InP PIN photodiode
- High responsivity at 1310nm & 1550nm
- -40 to+85°C operation
- Hermetically sealed 3 pin case
- Pigtailed module with singlemode fibre

Packaging

- Coaxial pigtail with mounting flange

Absolute Maximum Ratings (Tc = 25°C)

Item	Symbol	Value	Unit
Reverse Voltage	V_R Max	20	V
Operating Temperature	T_{opr}	-40, +85	°C
Storage Temperature	T_{stg}	-55, +125	°C

Optical & Electrical Characteristics (All optical data refer to a coupled 9/125µm SM fiber, Tc=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit	Testing Condition
Spectral Response	λ	-	0.9-1.7	-	µm	
Peak Sensitivity	λp	-	1.55	-	µm	
Photo Sensitivity	S	0.7	0.85	-	A/W	1310nm
Dark Current	I_D	-	80	400	pA	V_R = 5V
Shunt Resistance	R_{sh}	-	8	-	GΩ	V_R=10mV
Cut-off frequency	f_c	1	2	-	GHz	V_R=5V, R_L=50Ω, λ=1.3µm
Noise Equivalent Power	NEP	-	$2x10^{-15}$	-	$W/Hz^{1/2}$	λ=λp
Detectivity	D*	-	$5x10^{12}$	-	$cm . Hz^{1/2}/W$	λ=λp

∗ ESD precautions must be taken when handling this product.
Note: Specifications subject to change without notice.

25/09/02

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