

PDMH40A

High Speed InGaAs Photodiode Module



REV 09/01

Features

Ultra high speed InGaAs/InP photodiode
High responsivity from 800 to 1600 nm
High optical return loss
Integrated Bias-T
DC coupled output
Low operating bias voltage

Product Description

The PDMH40A is a compact very high- speed photodiode module for the wavelength region 800 to 1600 nm. The package is available with V (standard) or K, male or female electrical connectors and includes a single mode fibre pigtail and a SMB connector for DC bias supply. The module achieves full speed already at 2.5 volt bias and has a DC coupled output. The compact size allows the module to be connected directly to oscilloscope sampling heads or RF network analyzers.

Specifications @ T=25°C

Parameter	Sym	Min	Typ	Max	Unit
Conversion gain	$\lambda = 1550 \text{ nm}$	R	20	25	V/W
	$\lambda = 1300 \text{ nm}$		25	30	
Optical pulse energy	E_p			50	fJ
CW optical power	P_{CW}			3	dBm
Bias voltage	V^+		<2.5	3	V
Dark current	$V_f = 2.5$	I_D	10		nA
Return Loss*		R_L	-25		dB
Bandwidth		B	40		GHz

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