



Planar InGaAs/InP Digital PIN PD, Top Illuminated
IPPDC-D

Feature

- Planar InGaAs/InP photodiode with TFF
- Top-illuminated
- High sensitivity
- Wide Operational Temperature Range $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Available as Chip

Applications

- Optical Access Network
- FTTH (Fiber to the Home)
- IP Network

IPPDC-D Planar InGaAs/InP Digital PIN PD Chip Specifications @($T_{\text{chip}}=25^{\circ}\text{C}$)

Parameter	Symbol	Min	Max	Unit	Condition
Operating Wavelength	λ_{RX}	1480	1500	nm	
Responsivity	R	0.9		A/W	λ_{RX}
Capacitance	C_{PD}		0.8	pF	$V_r=5\text{V}$, $f=1\text{MHz}$
Cut-Off Frequency	$f_{3\text{dB}}$	2		GHz	$V_r=5\text{V}$, $R_L=50\Omega$
Dark Current	I_{dark}		1	nA	$V_r=5\text{V}$, $T=25^{\circ}\text{C}$
	I_{dark}		80	nA	$V_r=5\text{V}$, $T=85^{\circ}\text{C}$
PIN Dimensions					Top-illuminated 300umx300umx150um

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