No.6, Hejiang Rd., Jhonhli District,
Taoyuan City 320, TAIWAN
Tel: +886-3-452-5188 x1003
Fax: +886-3-462-9588
www.luxnetcorp.com.tw

1x4 25 Gbps 1310/1550 nm PIN Array
(Preliminary)

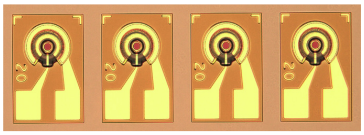
MI7G-7420

Part Number: MI7G-7420

Applications: 100 Gbps

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Value	Note
Forward Current	I_F	mA	10	
Reverse Voltage	V_R	V	20	
Die-Attach Temperature		°C	330	60 Seconds Max
Operating Temperature	T_{op}	°C	-40 to 90	
Storage Temperature	T_{stg}	°C	-40 to +100	



Electro-optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Aperture	D	μm	18	20	22	
Responsivity	R	A/W		0.75		λ = 1310 nm
Dark Current	I_D	nA		10	50	V_R = 5 V
Breakdown Voltage	V_B	V	20			I_R = 1 μA
Capacitance	C	pF		0.08	0.10	V_R = 5 V f = 1 MHz
Cut-off Frequency	f_C	GHz		22		V_R = 2 V R_L = 50Ω

Chip configuration:

1. Both anode and cathode contacts on top (epi) surface.
2. Dimension: 350 um (width) x 1000 um (length) x 130 um (thickness)
   Tolerance: +/-12.5um
   Per channel dimension: 250 um (width) x 350 um (length), die pitch is 250um.
3. Bond pad size: 70 x 80 um square
4. P-bond pad on left