



Fiber Pigtailed Photodiode Array (FPDA Series)

Rev 11

Description

The Fiber Pigtailed Photodiode Array (FPDA) is a compact, multi-channel power-detecting device. It obviously simplifies module design and assembling process by pre-integrating several single power detectors in one. It provides standard pins with 2.54 mm space to easily mount on PCB. It applies for channel power monitoring in DWDM system, in-line optical network switching protection monitoring (OLP), re-configurable optical add/drop multiplexer (OADM), and gain/attenuation monitoring in network's power detection.

Specifications

Parameter	Condition	Unit	Value
Center Wavelength (λ_c)		nm	1310
Operating Wavelength Range (λ_{op})		nm	$\lambda_c \pm 50$
Mini. Responsivity		A/W	0.75
Dark Current (@ 70 °C, - 5 V bias)	0.5G Bandwidth	nA	8
	2.0G Bandwidth	nA	2
Responsivity Temperature Dependence (λ_c)		dB	0.3
Responsivity Polarization Dependence		dB	0.1
Return Loss		dB	40
Input Optical Power		mW	10 ¹
Reverse Voltage		V	20 ¹
Forward Current		mA	10 ¹
Fiber Type		-	SMF-28 Fiber
Operating Temperature		°C	0 to + 70
Storage Temperature		°C	- 40 to + 85

¹Guaranteed by Photodiode

²RL is 5 dB lower for each connector added.

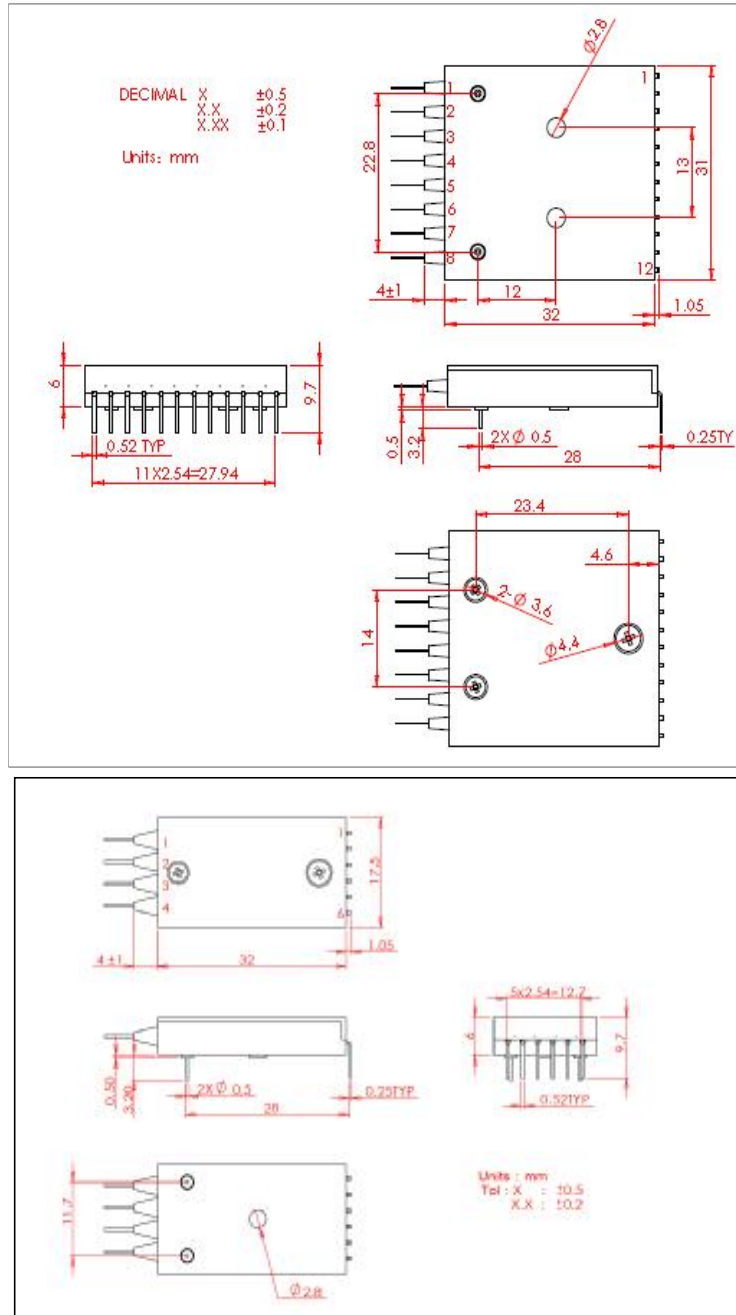
Pin Assignment

Electrical Pin Assignment

Pin#	Common Cathode Assignment	Common Anode Assignment
pin1	Common Cathode for Ch 1 & 2	Common Anode for Ch 1 & 2
pin2	Anode Ch 1	Cathode Ch 1
pin3	Anode Ch 2	Cathode Ch 2
pin4	Common Cathode for Ch 3 & 4	Common Anode for Ch 3 & 4
pin5	Anode Ch 3	Cathode Ch 3
pin6	Anode Ch 4	Cathode Ch 4
pin7	Anode Ch 5	Cathode Ch 5
pin8	Common Cathode for Ch 5 & 6	Common Anode for Ch 5 & 6
pin9	Anode Ch 6	Cathode Ch 6
pin10	Anode Ch 7	Cathode Ch 7
pin11	Common Cathode for Ch 7 & 8	Common Anode for Ch 7 & 8
pin12	Anode Ch 8	Cathode Ch 8



Package Dimensions



Ordering Information

FPDA-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Channel Number	②②: Wavelength	③③: Bandwidth	④④: Connector Type
08 - 8 Channel	55 - 1550 nm	05 - 0.5G	1 - FC/UPC
04 - 4 Channel	31 - 1310 nm	20 - 2.0G	2 - FC/APC
			3 - SC/UPC
			4 - SC/APC
			N - None
			S - Specify
⑤⑤: Fiber Jacket	⑥⑥: Fiber Length	⑦⑦: Package Type	
B - 250 μm Bare Fiber	1 - 1.0 m	1 - Common Cathode	
L - 900 μm Loose Tube	S - Specify	2 - Common Anode	
T - 900 μm Tight Buffer			