

## 1310nm MPO SM Pigtailed PIN Mini PD Array

1310nm MPO SM Pigtailed PIN Mini PD Array is an optoelectronic product which can detect light signal by transferring the light optical signal to electric signal, it's built with InGaAs chip material to detect the light signal from the pigtailed fiber, the MPO pigtailed fiber can be 4, 8, 12, 16, 24 channel. it's widely used for monitoring the optical power in fiber optic sensor and optic electric communication field.

### Application:

Fiber Communication  
Fiber Optic Sensor  
Computed Tomography  
Testing System

### Features:

High Response  
Low Dark Current  
Low Capacitance  
High Reliability



### Absolute Maximum Ratings:

Parameter	Symbol	Value	Unit
Reverse Voltage	Vr	20	V
Forward Current	If	10	mA
Operating Temperature	T	-40~+85	°C
Storage Temperature	T	-40~+85	°C
Solder Temperature	T	260	°C
Lead Solder Time		10	S

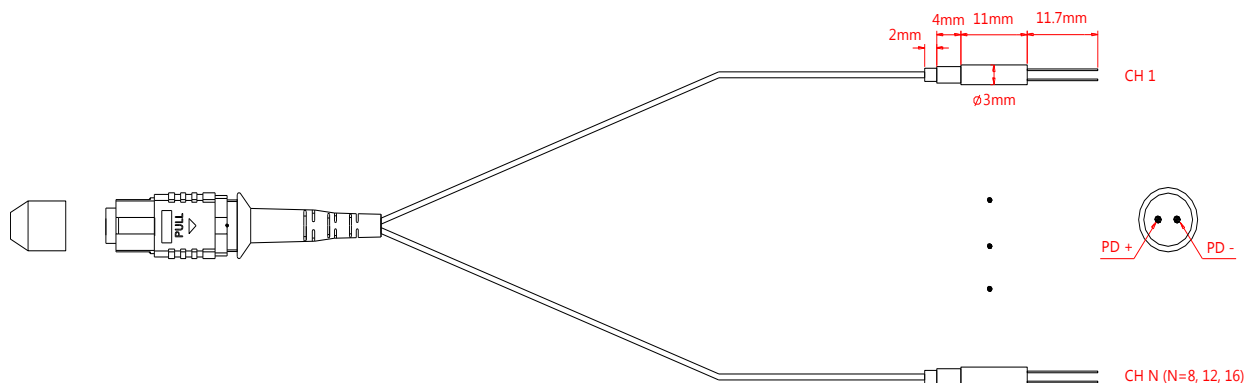
Notice: Above specifications should not be exceeded, or the Photodiode will be seriously damaged.

### Optical and Electrical Specification:

Parameter	Symbol	Min.	Tpy.	Max.	Unit	Test Condition
Wavelength Range	$\lambda$	1100	1310	1650	nm	
Saturation Input Power	P			10	mW	Vr=5V
Dark Current	Id		0.03	0.2	nA	Vr=5V
Responsivity	R	0.8	0.85		A/W	
Frequency Bandwidth	Bw		2.5		GHz	
Junction capacitance	Cj		0.6	0.8	Pf	Vr=5V
Active Diameter	Ad	55	80	1000	um	
Response Time (Raise/Fall)	Tr/Tf		0.1	0.3	ns	
Return Loss	RL	45	50		dB	
Fiber Type		SM-28e Fiber				

Notice: Above specifications are tested in room temperature at 25°C.  
Specifications may change without notice.

**Drawing:**



**Ordering Information (Part Number):**

**SMMPD-*WWWW-AA-CC-J-LL-CCC-C***

<i>WWWW</i>	<i>AA</i>	<i>CC</i>	<i>J</i>	<i>LL</i>	<i>CCC</i>	<i>C</i>
Wavelength	Active Diameter	Channel	Fiber Jacket	Fiber Length	Connector	Connector Pin Option
1310 - 1310nm	55 - 55um	04 - 4CH	B - 250um Bare Fiber	05 - 0.5m	MPU - MPO/UPC	F - Female
	60 - 60um	08 - 8CH	L - 900um Loose Tube	10 - 1.0m	MPA - MPO/APC	M - Male
	75 - 75um	12 - 12CH		15 - 1.5m	MTU - MTP/UPC	
	80 - 80um	16 - 16CH		20 - 2.0m	MTA - MTP/APC	
	1H - 100um	24 - 24CH		SS - Specify		
	1K - 1000m					

**Notification:**

1. The Semiconductor Optoelectronic products are particularly sensitive of ESD (electro-static discharge), it's recommended to use grounded anti-static wrist straps and grounded anti-static mats before handling the products.
2. Always take anti-static measures to storage the products when not in use.

