



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# PIGTAIL INTEGRATED INGAAS PIN PHOTODIODE ARRAY

## PIPA Series

### Product Description

Oplink's Pigtail Integrated Photodiode Array (PIPA) is a compact, multi-channel power-monitoring device. It increases module design flexibility and efficiency by significantly reducing the number of assembly components and facilitating fiber management.

Easily mounted on a PCB, Oplink's standard 12/14-pin package provides power monitoring for up to ten channels. Applications include DWDM channel power monitoring, optical network switching/protection monitoring, re-configurable optical add/drop multiplexers, and gain/attenuation monitoring in amplifier systems.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.



### Performance Specification

Parameters		Specification		Unit
Operating Wavelength Range		1260~1360	1510~1610	nm
Optical	Return Loss (exclude connector)	>40		dB
Monitoring	Responsivity (relative to nominal power at input port)	>0.75	>0.8	A/W
	Responsivity Temperature Dependence (@1310nm or 1550nm)	<0.2		dB
	Responsivity Polarization Dependence	<0.1		dB
PD	PD Dark Current (@ 70°C, -5V bias)	0.5G Bandwidth	<10	nA
		2.0G Bandwidth	<2.5	nA
	Reverse Voltage	<20		V
	Forward Current	<10		mA
Conditions	Input Optical Power	<4		dBm
	Operating Temperature Range (<85%RH, Non-condensing)	-5 to +70		°C
	Storage Temperature Range (<85%RH, Non-condensing)	-40 to -85		°C

Notes:  
1) Excluding connectors.

### Features

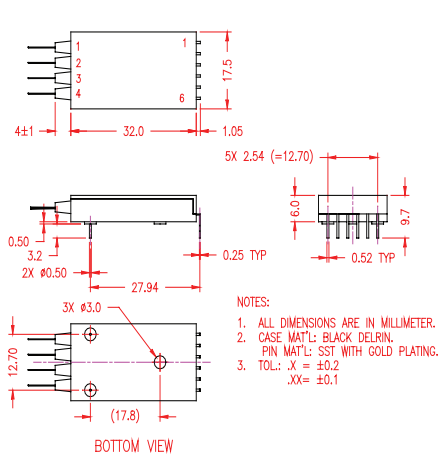
- ◆ Standard, 12/14-pin package easily mounted on a PCB
- ◆ 4, 8 and 10 channel configurations
- ◆ Wide operating wavelength range
- ◆ Low dark current
- ◆ High temperature stability

### Applications

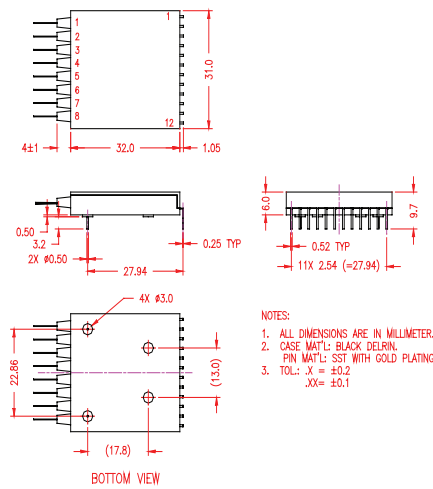
- ◆ DWDM channel monitoring
- ◆ Optical network switch/protection monitoring
- ◆ Re-configurable optical add/drop multiplexers
- ◆ Gain/attenuation monitoring in amplifier systems
- ◆ EDFAs and Raman amplifiers

Mechanical Drawing / Package Dimensions (dimension in mm)

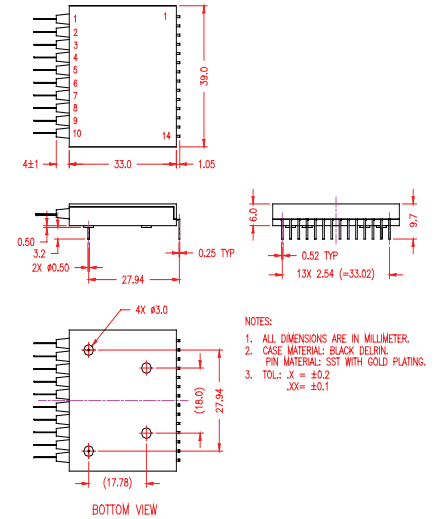
1) 4-ch PIPA



2) 8-ch PIPA



3) 10-ch PIPA



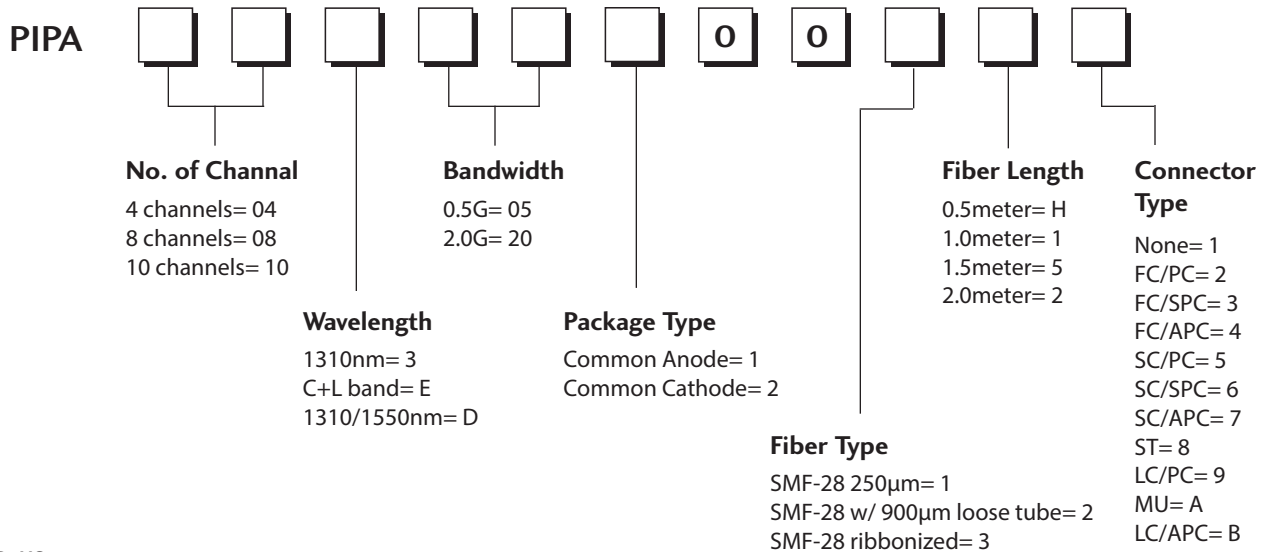
Electrical Pin Assignment	
Pin#:	Common Cathode Assignment
Pin1:	Common Cathode for Ch1 & 2
Pin2:	Anode Ch1
Pin3:	Anode Ch2
Pin4:	Common Cathode for Ch3 & 4
Pin5:	Anode Ch3
Pin6:	Anode Ch4

Electrical Pin Assignment	
Pin#:	Common Cathode Assignment
Pin1:	Common Cathode for Ch1 & 2
Pin2:	Anode Ch1
Pin3:	Anode Ch2
Pin4:	Common Cathode for Ch3 & 4
Pin5:	Anode Ch3
Pin6:	Anode Ch4
Pin7:	Anode Ch5
Pin8:	Common Cathode for Ch5 & 6
Pin9:	Anode Ch6
Pin10:	Anode Ch7
Pin11:	Common Cathode for Ch7 & 8
Pin12:	Anode Ch8

Electrical Pin Assignment	
Pin#:	Common Cathode Assignment
Pin1:	Common Cathode for Ch1 to 4
Pin2:	Anode Ch1
Pin3:	Anode Ch2
Pin4:	Anode Ch3
Pin5:	Anode Ch4
Pin6:	Anode Ch5
Pin7:	Common Cathode for Ch5 to 8
Pin8:	Anode Ch6
Pin9:	Anode Ch7
Pin10:	Anode Ch8
Pin11:	Anode Ch9
Pin12:	Common Cathode for Ch9 & 10
Pin13:	Anode Ch10
Pin14:	Not connected

Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



RoHS:

1. Add "G" to the end of the above PN for RoHS 6 Requirement.