

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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Fiber Optic Detector

OPF470



Features:

- Electrically isolated plastic cap package
- High speed, low capacitance
- Designed to self align in the 0.228 diameter bore of standard fiber optic receptacles.
- Press fit simplified component installation
- 35MHz operation minimum



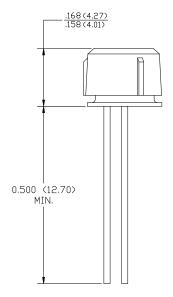
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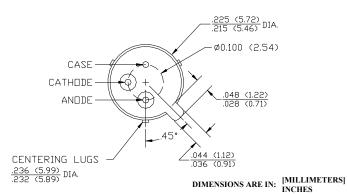
The OPF470 is a low noise silicon PIN photodiode mounted in a low cost package for fiber optic applications. It offers fast response at moderate bias and is compatible with LED and laser diode sources in the 800-1000 nm wavelength region. Low capacitance improves signal to noise performance in typical short haul LAN applications.

The OPF470 is designed to be compatible with multimode optical fibers from 50/125 to 200/300 microns.

Applications:

- Industrial Ethernet equipment
- Copper-to-fiber media conversion
- Intra-system fiber optic links
- Video surveillance systems







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Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)				
Storage Temperature Range	-55° C to +115° C			
Operating Temperature Range	-40° C to +100° C			
Lead Soldering Temperature ⁽¹⁾	260° C			
Continuous Power Dissipation ⁽²⁾	200 mW			
Maximum Reverse Voltage	100 VDC			

Electrical Characteristics (T _A = 25° C unless otherwise noted)								
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS		
R	Responsivity	0.45	0.55		A/W	$V_R = 5.0V$; 50/125 μ m fiber; $\lambda = 850$ nm		
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V		
λ_{p}	Peak Response Wavelength		905		nm			
t _r	Output Rise Time		6.0		ns	V _R = 15V; R _L = 50W, 10%-90%		
C _T	Total Capacitance		3.0		pF	V _R = 20V		
FoV	Field of View		80		deg			

Notes:

- 1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- De-rate linearly at 2.13mW/°C above 25°C.

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Performance

Typical Responsivity

