

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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OPF370A



Features:

- Low Cost 850 nm LED technology
- Electrically isolated plastic cap package
- High thermal stability
- High optical coupling efficiency to multimode fiber
- Industrial temperature range



Description:

The OPF370A fiber optic transmitter is a high performance device packaged for data communication links. This transmitter is an 850 nm GaAlAs LED and is specifically designed to efficiently launch optical power into fibers ranging in size from $50/125\mu m$ up to $200/300\mu m$ diameter fiber. Multiple power ranges with upper and lower limits are offered which allows the designer to select a device best suited for the application.

This product's combination of features including high speed and efficient coupled power makes it an ideal transmitter for integration into all types of data communications equipment.

Applications:

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

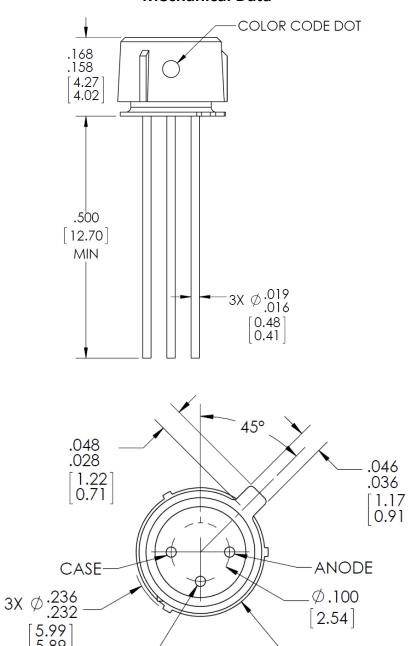
Typical Coupled Power I _F = 100mA, 25°C							
Fiber Size	Туре	N.A.	OPF370A				
50/125 μm	Graded Index	0.20	29μW				
62.5/125 μm	Graded Index	0.28	89μW				
100/140 μm	Graded Index	0.29	200μW				
200/300 μm	Step Index	0.41	750μW				



OPF370A



Mechanical Data



CATHODE

DIMENSIONS ARE IN INCHES (MILLIMETERS)

CENTERING

LUGS

OPF370A



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 Forward Current ⁽²⁾	100 mA			
Maximum Reverse Voltage	1.0 V			

Electrical Characteristics (T _A = 25° C unless otherwise noted)										
SYMBOL	PARAMETER		DOT	MIN	TYP	MAX	UNITS	TEST CONDITIONS		
P _{T50} ⁽³⁾	Total Coupled Power	OPF370A	Red	25.0	29.0		μW	I _F = 100 mA		
V _F	Forward Voltage				1.8	2.2	٧	I _F = 100 mA		
V _R	Reverse Voltage			1.8			٧	Ι _R = 100 μΑ		
λ	Wavelength			830	850	870	nm	I _F = 50 mA		
Δλ	Optical Bandwidth				50	60	nm	I _F = 50 mA		
t _r ,t _f	Rise and Fall Time				6.0	10.0	ns	I _F = 100 mA; 10% to 90% ⁽⁴⁾		

Notes:

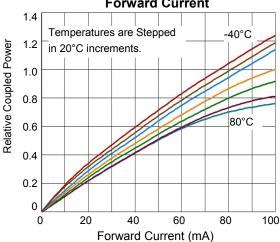
- 1. Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.
- 2. De-rate linearly at 1.0mA /°C above 25°C.
- 3. The component must be actively aligned into the mating fiber cable assembly to achieve optimal performance.
- 4. No Pre-bias.
- 5. All Optek fiber optic LED products are subjected to 100% burn-in as part of its quality control process. The burn-in conditions are 96 hours at 100mA drive current and 25°C ambient temperature.

OPF370A



Performance

Relative Coupled Power vs. Forward Current



Typical Forward Voltage vs.

