

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

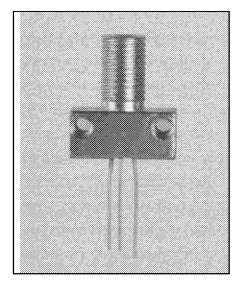








Fiber Optic GaAlAs LED in SMA Receptacle Types OPF371A, OPF371B, OPF371C, OPF371D



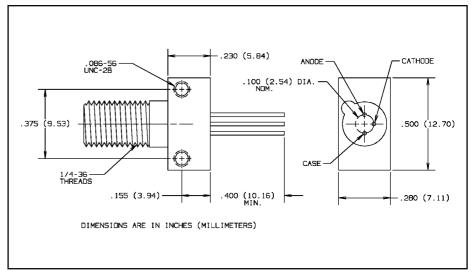
Features

- Component pre-mounted and ready to use
- Pre-tested with fiber to assure performance
- Popular SMA style receptacle

Description

The OPF371 series LED consists of a low cost plastic cap LED, pre-mounted and aligned in an SMA receptacle. This configuration is designed for PC board or panel mounting. Includes lock washer and jam nut, two 2-56 screws, and a dust cap.

The LED's are designed to interface with mulitmode optical fibers from 50/125 to 200/300 microns.



Absolute Maximum Ratings (T_A = 25° C unless otherwise noted)

Reverse Voltage
Continuous Forward Current
Storage Temperature Range55° C to +100° C
Operating Temperature Range40° C to +85° C
Lead Soldering Temperature [1/16 inch (1.6 mm) from case for 5 sec. with soldering
iron]
Note:

- (1) RMA flux is recommended. Duration can be extended to 10 sec. max when flow soldering.
- (2) Graded index fiber, 50 μm core, N.A. = 0.20.
- (3) To convert radiant power output to dBm, use the following expression: dBm = 10 log (µW/1000)
- (4) Derate linearly @ 1.0 mA/° C above 25° C.
- (5) Prebias @ 5 mA current.

LED Burn-in

All LED's are subject to 100% burn-in testing. Test conditions are 96 hours at 100 mA continuous current in 25° C ambient.

TYPICAL COUPLED POWER into OPTICAL FIBER

Typical Coupled Power I _F = 100 mA @ 25 ⁰ C											
Fiber	Refractive Index	N.A.	OPF371D	OPF371C	OPF371B	OPF371A					
50/125 μm	Graded	0.20	7.5 μW	12.5 μW	19 μW	29 μ W					
62.5/125 μm	Graded	0.28	27 μW	35 μW	51 μW	89 μW					
100/140 μm	Graded	0.29	60 μW	87 μ W	129 μW	200 μW					
200/300 μm*	Step	0.41	320 μW	463 μW	606 μW	750 μW					

*PCS - Plastic Clad Silica

Types OPF371A, OPF371B, OPF371C, OPF371D Electrical Characteristics (T_A = 25° C unless otherwise noted)

SYMBOL	PARAMETER			TYP	MAX	UNITS	TEST CONDITIONS
	Radiant Power Output	OPF371D	5.0	7.5			
Po		OPF371C	10.0	12.5		μW	I _F = 100 mA ⁽²⁾
10		OPF371B	15.0	19.0			
		OPF371A	25.0	29.0			
VF	Forward Voltage			1.8	2.0	V	I _F = 100 mA
λр	Peak Output Wavelength			850	870	nm	I _F = 50 mA
В	Spectral Bandwidth Between Half Power Points			35		nm	I _F = 50 mA
t _r	Output Rise Time			6.0	8.0	ns	$I_F = 100 \text{ mA}, 10\%-90\%^{(5)}$
t _f	Output Fall Time			6.0	10.0	ns	I _F = 100 mA, 90%-10% ⁽⁵⁾

Typical Performance Curves

