



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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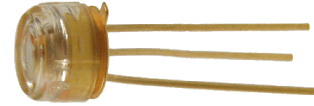
Fiber Optic Transmitter

OPF395 Series



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
- 75 MHz Bandwidth



Description:

The OPF395 series fiber optic transmitters are high performance devices 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 50/125µm up to 200/300µm 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 $I_f = 100\text{mA}, 25^\circ\text{C}$ | | | | | | |
|---|--------------|------|---------|---------|---------|---------|
| Fiber Size | Type | N.A. | OPF395A | OPF395B | OPF395C | OPF395D |
| 50/125 µm | Graded Index | 0.20 | 25µW | 18µW | 12.5µW | 7.5µW |
| 62.5/125 µm | Graded Index | 0.28 | 75µW | 45µW | 35µW | 27µW |
| 100/140 µm | Graded Index | 0.29 | 170µW | 115µW | 85µW | 58µW |
| 200/300 µm | Step Index | 0.41 | 650µW | 545µW | 450µW | 290µW |



RoHS

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

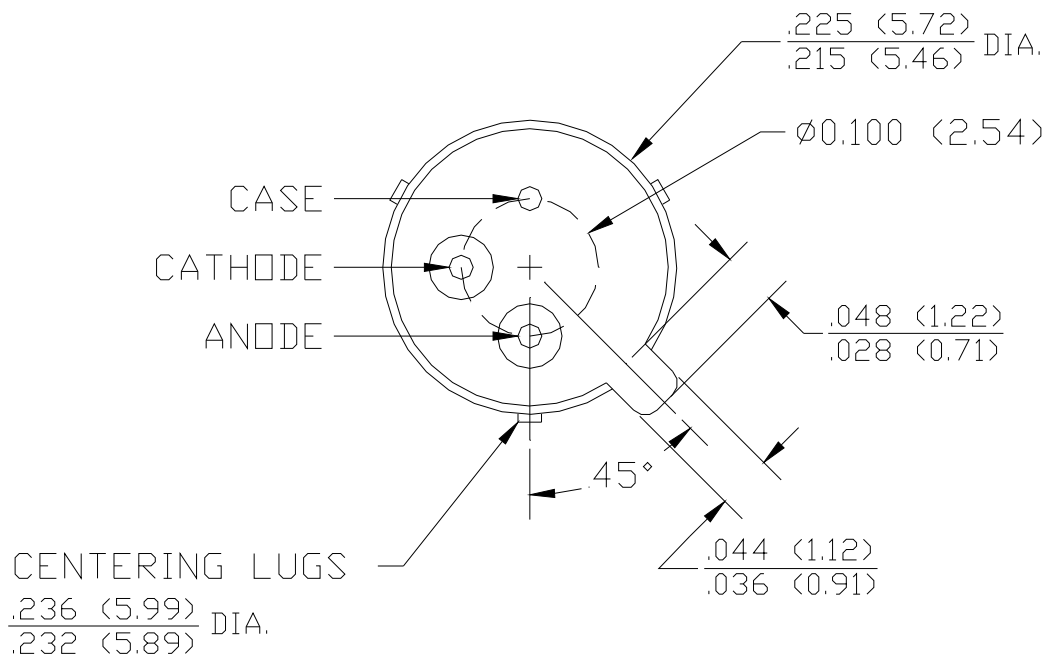
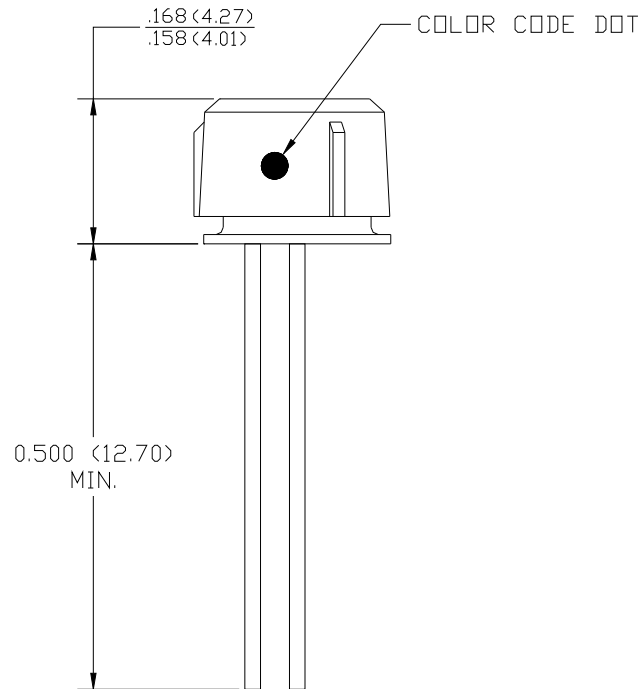
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Fiber Optic Transmitter

OPF395 Series



Mechanical Data



DIMENSIONS ARE IN INCHES (MILLIMETERS)

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Electrical Specifications

| Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted) | |
|---|-------------------|
| Storage Temperature Range | -55° C to +150° C |
| Operating Temperature Range | -40° C to +125° C |
| Lead Soldering Temperature ⁽¹⁾ | 260° C |
| Continuous Forward Current ⁽²⁾ | 100 mA |
| Maximum Reverse Voltage | 1.0 V |

| Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted) | | | | | | | | |
|---|---------------------------|---------|--------|------|------|-----|---------------|--|
| SYMBOL | PARAMETER | | DOT | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
| $P_{T50}^{(3)}$ | Total Coupled Power | OPF395A | Orange | 20.0 | 25.0 | | μW | $I_F = 100\text{ mA}$ |
| | | OPF395B | Green | 15.0 | 18.0 | | | |
| | 50/125 mm Fiber NA = 0.20 | OPF395C | Black | 10.0 | 12.5 | | | |
| | | OPF395D | Silver | 5.0 | 7.5 | | | |
| V_F | Forward Voltage | | | | 1.8 | 2.2 | V | $I_F = 100\text{ mA}$ |
| V_R | Reverse Voltage | | | 1.8 | | | V | $I_R = 100\ \mu\text{A}$ |
| λ | Wavelength | | | 830 | 850 | 870 | nm | $I_F = 50\text{ mA}$ |
| $\Delta\lambda$ | Optical Bandwidth | | | | 35 | | nm | $I_F = 50\text{ mA}$ |
| t_r, t_f | Rise and Fall Time | | | | 3.5 | 4.5 | ns | $I_F = 100\text{ mA}; 10\% \text{ to } 90\%^{(4)}$ |

Notes:

- 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 1.0mA /°C above 25°C .
- The component must be actively aligned into the mating fiber cable assembly to achieve optimal performance.
- No Pre-bias.
- 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.

Performance

