OPF392 Family



Features:

- Low Cost 850 nm LED technology
- Popular ST[®] style receptacle
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- 55MHz operation



Description:

The OPF392 family fiber optic transmitters are high performance devices packaged for data communication links. This transmitter is an 850nm 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.

The mechanical design of this packaged is intended for PC Board or panel mounting. It is shipped with a lock washer, jam nut, 2 #2-56 screws, and a protective dust cap.

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.	OPF392A	OPF392B	OPF392C	OPF392D					
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					

All Optek OPF LED emitters are AEL Class I as defined by IEC 60825-1 and are Risk Group 1 (Low-Risk) as defined by IEC 62471.



Class 2 $ST^{\mathbb{R}}$ is a registered trademark of AT&T.

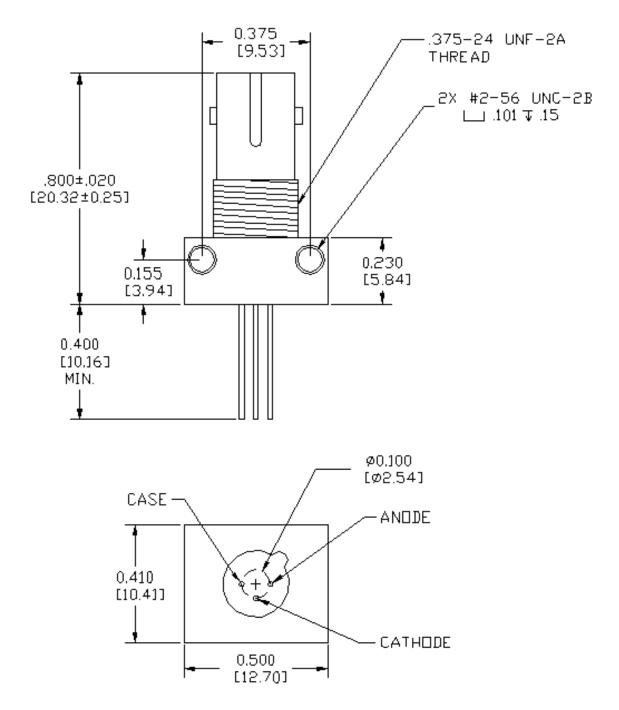
General Note TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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OPF392 Family



Mechanical Data



DIMENSIONS ARE IN INCHES (MILLIMETERS)

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Electrical Specifications

Absolute Maximum Ratings (T _A = 25° C unless otherwise noted)				
Storage Temperature Range	-55° C to +100° C			
Operating Temperature Range	-40° C to +85° C			
Lead Soldering Temperature ⁽¹⁾	260° C			
Continuous Forward Current ⁽²⁾	100 mA			
Maximum Reverse Voltage	1.0 V			

SYMBOL	PARAMETER		MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
P _{oc}	Total Coupled Power 50/125 mm Fiber, NA = 0.20	OPF392A	20.0	25.0		- μW	I _F = 100 mA
		OPF392B	15.0	18.0			
		OPF392C	10.0	12.5			
		OPF392D	5.0	7.5			
$V_{\rm F}$	Forward Voltage			1.8	2.2	V	I _F = 100 mA
V _R	Reverse Voltage		1.8			V	I _R = 100 μA
λ	Wavelength		830	850	870	nm	I _F = 50 mA
Δλ	Optical Bandwidth			45	60	nm	I _F = 50 mA
t _r ,t _f	Rise and Fall Time			4.5	6.0	ns	I _F = 100 mA; 10% to 90% ⁽³⁾

Notes:

- 2. De-rate linearly at 1.33mA /°C above 25°C .
- 3. No Pre-bias.
- 4. 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.

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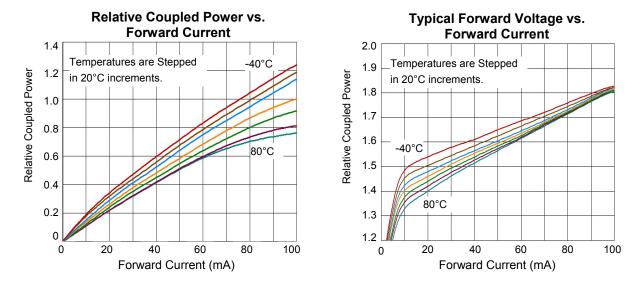
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^{1.} Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended.

OPF392 Family



Performance



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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 FTLX3813M354
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 SCN-1570SC
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