Fiber Optic Detector

OPF480

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
- 100MHz operation maximum

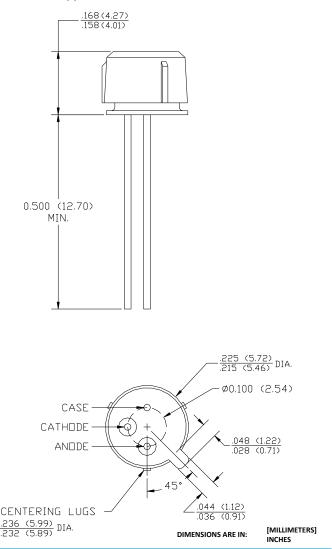
Description:

The OPF480 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 OPF480 is designed to be compatible with multimode optical fibers from 50/125 to 200/230 microns.

Applications:

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



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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Electronics

Fiber Optic Detector



OPF480

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	ТҮР	ΜΑΧ	UNITS	TEST CONDITIONS
R	Responsivity	0.45	0.55		A/W	V _R = 5.0V; 50/125µm fiber; l = 850nm
I _D	Dark Current		0.1	5.0	nA	V _R = 5.0V
l _p	Peak Response Wavelength		905		nm	
t _r	Output Rise Time		2.0		ns	V _R = 5V; R _L = 50Ω, 10%-90%
C _T	Total Capacitance		1.5	2.0	pF	V _R = 5V
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.

2. De-rate linearly at 2.13mW/°C above 25°C .

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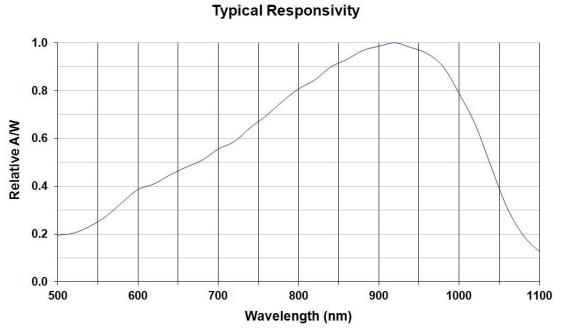
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Fiber Optic Detector

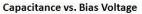


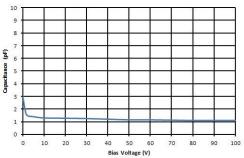
OPF480

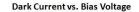


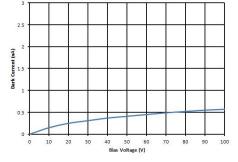


Dark Current vs. Temperature 10,000 1,000 Dark Current (nA) 100 10 0 -25 50 125 150 -50 25 75 100 0 Temp erature (°C)









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