OPF79X Series



Features:

- High speed, low capacitance
- Popular ST[®] style receptacle
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- 100MHz operation minimum



Description:

The OPF79X 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 OPF79X series is designed to be compatible with multimode optical fibers from 50/125 to 200/300 microns.

Applications:

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

Package Material							
Part Number	Body Material	Body Style					
OPF792 Obsolete per EOL1040 (Replacement OPF794)	Conductive Plastic	ST [®]					
OPF794	Zinc, Die Cast	ST-LP [®]					



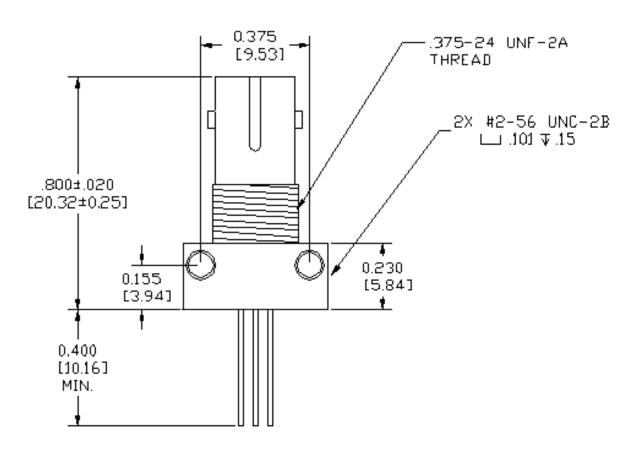
RoHS

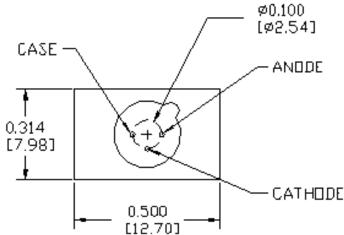
ST[®] is a registered trademark of AT&T.

OPF79X Series



Mechanical Data - OPF792





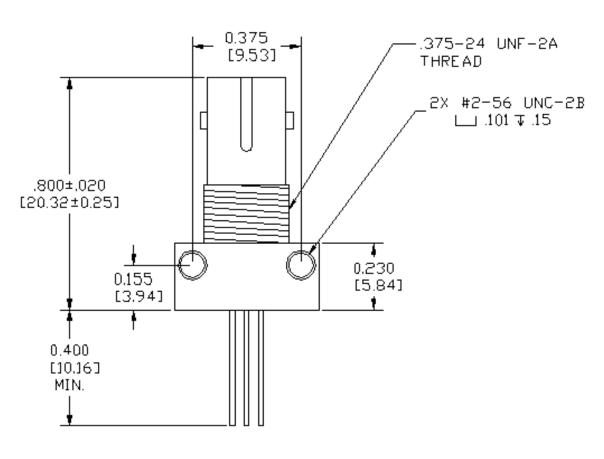
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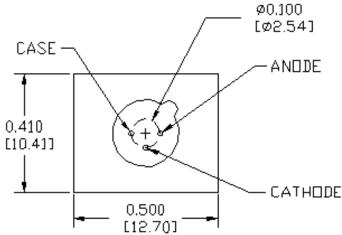
[MILLIMETERS]
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TT Electronics | OPTEK Technology



Mechanical Data - OPF794





DIMENSIONS ARE IN:

[MILLIMETERS]
INCHES

OPF79X Series



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
Maximum Reverse Voltage	50 VDC

Electrical Characteristics (T_A = 25° C unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
R	Responsivity	0.45	0.55		A/W	V _R = 5.0V; 50/125μm fiber; I = 850nm
I _D	Dark Current		0.5	5.0	nA	V _R = 5.0V
Ip	Peak Response Wavelength		800		nm	
t _r	Output Rise Time		2.0		ns	$V_R = 5.0V; R_L = 50\Omega, 10\%-90\%$
BW	Bandwidth		175		MHz	V _R = 5.0V

Notes:

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

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Performance Typical Responsivity

