Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

TT Electronics/Optek Technology OPF322A

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of TT Electronics/Optek Technology: Excellent Integrated System Limited

Datasheet of OPF322A - LED RECEPT FBR OPTIC GAAIAS TO46

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Fiber Optic Transmitter OPF322 Family



OPF322 Family

- Low Cost 850 nm LED technology
- Popular ST[®] style receptacle
- Pre-tested with fiber to assure performance
- Component pre-mounted and ready to use
- Extended temperature range
- 35MHz operation



The OPF322 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.	OPF322A	OPF322B	OPF322C						
50/125 μm	Graded Index	0.20	19µW	12.5µW	7.5µW						
62.5/125 µm	Graded Index	0.28	34µW	22µW	16µW						
100/140 μm	Graded Index	0.29	95µW	62µW	38µW						
200/300 μm	Step Index	0.41	360µW	235µW	140µW						





defined by IEC 60825-1 and are Risk Group 1 (Low-Risk) as defined by IEC 62471.

All Optek OPF LED emitters are AEL Class I as

ESD Class 2

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

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

Distributor of TT Electronics/Optek Technology: Excellent Integrated System Limited

Datasheet of OPF322A - LED RECEPT FBR OPTIC GAAIAS TO46

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Fiber Optic Transmitter **OPF322 Family**



Absolute Maximum Ratings

 $T_A = 25^{\circ} C$ unless otherwise noted

Storage Temperature Range	-55° C to +125° C
Operating Temperature Range	-40° C to +100° C
Lead Soldering Temperature ⁽¹⁾	260° C
Continuous Forward Current ⁽²⁾	100 mA
Maximum Reverse Voltage	1.0 V

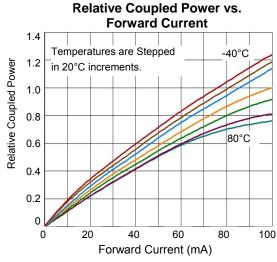
Electrical/Optical Characteristics (T_A = 25°C unless otherwise noted)

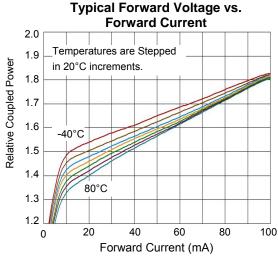
SYMBOL	PARAMETER		MIN	TYP	MAX	UNITS	CONDITIONS
	Total Coupled Power 50/125 mm Fiber, NA = 0.20	OPF322A	15.0	19.0			
		OPF322B	10.0	12.5		μW	I _F = 100 mA
		OPF322C	5.0	7.5			
V_{F}	Forward Voltage			1.8	2.2	V	I _F = 100 mA
V_R	Reverse Voltage		1.8			V	I _R = 100 μA
λ	Wavelength		830	850	870	nm	I _F = 50 mA
Δλ	Optical Bandwidth			45	60	nm	I _F = 50 mA
t _r ,t _f	Rise and Fall Time			6.0	10.0	ns	$I_F = 100 \text{ mA}; 10\% \text{ to } 90\%^{(3)}$

Notes:

Issue B

- Maximum of 5 seconds with soldering iron. Duration can be extended to 10 seconds when flow soldering. RMA flux is recommended. 1.
- De-rate linearly at 1.07mA /°C above 25°C . 2.
- No Pre-bias. 3
- 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.





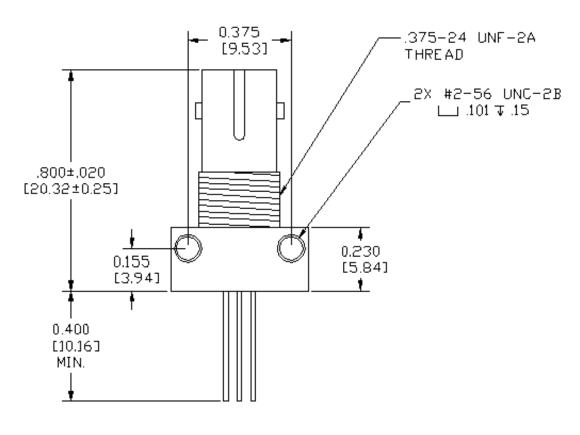
OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

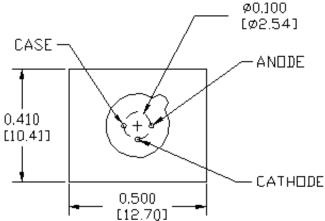


Fiber Optic Transmitter OPF322 Family



Mechanical Data





DIMENSIONS ARE IN INCHES (MILLIMETERS)

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.