FL-3620 / PT-3610 SERIES

8–Pin Ethernet Single-Mode Optical Transmitter / Receiver

FEATURES



* Distance up to 20 km at signal rates of 1 to 20 MBd
* 1310 nm wavelength emission
* Single-mode fiber operation
* Wave solder and aqueous wash process compatible
* Panel mount ST connectors (FL-3620 / PT-3610)
* Panel mount FC connectors (FL-3620F / PT-3610F)
* Industrial standard 8-pin configuration

APPLICATION

* Single-mode extensions to Ethernet (10-Base-F) links
* Single-mode connection

DESCRIPTION

FL-3620 / PT-3610 series is specified designed for the Ethernet single-mode transmitter / receiver application.

FL-3620 / FL-3620F ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25 °C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{th}	Threshold Current	CW	---	12	20	mA
V_{OP}	Operating Voltage	Iop=40mA, SM fiber	---	1.2	1.5	V
P_f	Fiber Coupled Power		-20	---	-10	dBm
λ	Peak Wavelength		1280	1310	1340	nm
Δλ	Spectrum Width		---	---	5	nm

PT-3610 / FL-3610F ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25 °C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Sen	Sensitivity	1 to 20 MBd, SM fiber		-36	-34	dBm
Pin, sat	Saturation		-5	0	---	dBm
V_{cc}	Supply Voltage		4.75	5	5.25	V
I_{cc}	Supply Current		20	25	35	mA

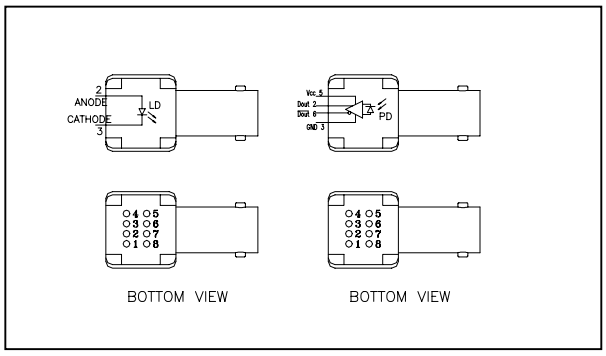
Recommended Operating Conditions

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
T_{opr}	Operating Temperature		0		70	°C
T_{stg}	Storage Temperature		-40		85	°C

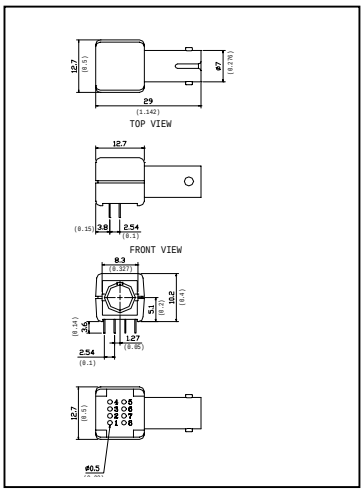
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PINOUT DESCRIPTION

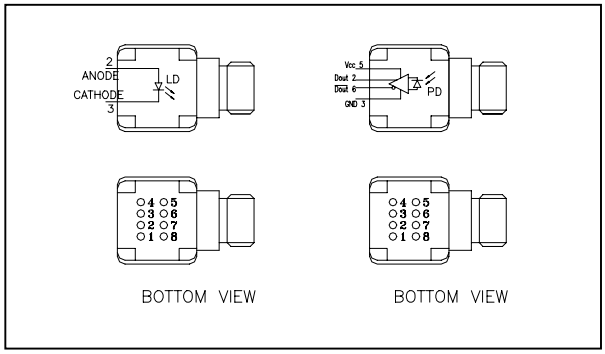
1) FL-3620 / PT-3610 (Panel mount ST connectors)

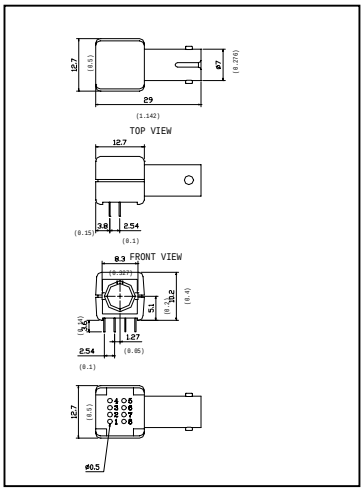


MECHANICAL DIMENSION (mm)



2) FL-3620F / PT-3610F (Panel mount FC connectors)





PIN ASSIGNMENT

FL-3620 / FL-3620F

PIN	Function
2	LD Anode
3	LD Cathode
1, 4, 5, 6, 7,8	No Connect

PT-3610 / PT-3610F

PIN	Function
2	Dout
3	GND
5	Vcc
6	Dout Bar
1, 4, 7, 8	No Connect

Note: Specifications subject to change without notice.

ORDER INFORMATION

Transmitter	Receiver	Distance (km)	Fiber	Data Rate (MBd)	Connector
FL-3620 / FL-3620F	PT-3610 / PT-3610F	20	SM	1 to 20	ST / FC
FL-3640 / FL-3640F	PT-3610 / PT-3610F	40	SM	1 to 20	ST / FC
FL-5660 / FL-5660F	PT-3610 / PT-3610F	60	SM	1 to 20	ST / FC
FL-5680 / FL-5680F	PT-3610 / PT-3610F	80	SM	1 to 20	ST / FC

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