

1310 nm DFB LASER DIODE MODULES
UNCOOLED MQW DFB LD WITH RECEPTACLE

DL-3500 SERIES

FEATURES

- 2 Uncooled Laser Diode with MQW Structure
- 2 High Reliability, Long Operation Life
- 2 Single Frequency Operation with High SMSR
- 2 0 to 70°C operation without active cooling
- 2 Build-in InGaAs monitor

APPLICATION

Trunk Line, FitL

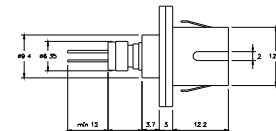
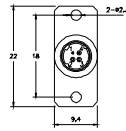
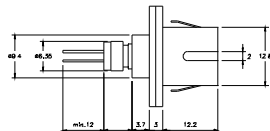
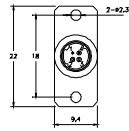
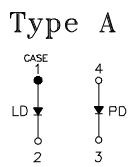
DESCRIPTION

DL-3500 series are designed for coupling a single mode optical fiber with 1310 nm MQW DFB uncooled laser diode. DL-3500 series are the best kits as light sources for telecom and datacom applications.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25 °C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{th}	Threshold Current	CW		10	15	mA
V _{OP}	Operating Voltage	CW, I _F =I _{th} +20mA		1.2	1.5	V
P _f	Optical Output Power Part No:DL-350X DL-351X DL-352X DL-353X	CW, I _F =I _{th} +20mA	0.2 0.5 1.0 2.0	- - - -	- - - -	mW
λ _c	Center Wavelength	CW, I _{th} +20mA	1290	1310	1330	nm
SMSR	Side Mode Suppression Ratio	CW, I _{th} +20mA	30	35		dB
t _r , t _f	Rise And Fall Times	I _F =I _{th} , I _{th} +20mA, 10~90%			0.3	ns
ΔP _f /P _f	Tracking Error	APC, 0~+70 °C	-	-	±1.5	dB
I _m	PD Monitor Current	CW, P _o = P _f , V _{RD} =1V	100			μA
I _D	PD Dark Current	V _{RD} =5V			0.1	μA
C _t	PD Capacitance	V _{RD} =5V, f=1MHz		10	15	pF

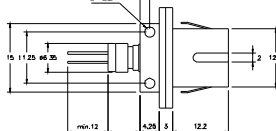
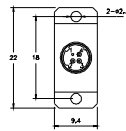
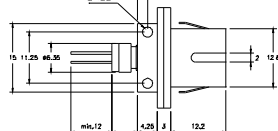
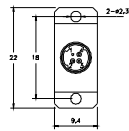
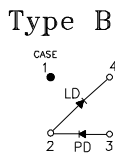
ABSOLUTE MAXIMUM RATINGS (T_C=25 °C)			
Symbol	Parameter	Ratings	Unit
P _o	Optical Output Power (350X/351X/352X/353X)	0.5/1.0/1.5/3	mW
V _{RL}	LD Reverse Voltage	2	V
V _{RD}	PD Reverse Voltage	10	V
I _{FD}	PD Forward Current	1.0	mA
T _{opr}	Operating Temperature	0 to 70	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



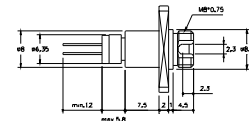
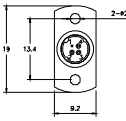
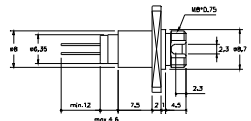
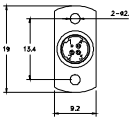
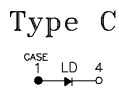
SC RECEPTACLE

SC RECEPTACLE



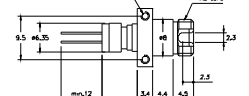
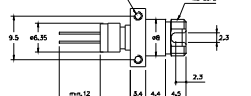
SC RECEPTACLE (BOARD MOUNT)

SC RECEPTACLE (BOARD MOUNT)



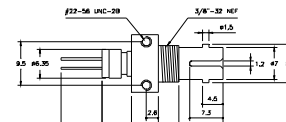
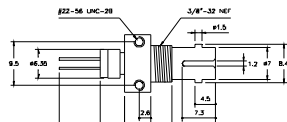
FC RECEPTACLE

FC RECEPTACLE



FC RECEPTACLE (BOARD MOUNT)

FC RECEPTACLE (BOARD MOUNT)



ST RECEPTACLE

ST RECEPTACLE

DL-350X
DL-351X

DL-352X
DL-353X

Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: D L - 3 5 -

Code	Pout (mw)
0	0.2
1	0.5
2	1
3	2

Code	Speed
Blank	1.25 Gbps
S	2.5 Gbps

Code	Isolator
Blank	No
S	Single-Stage

Code	Pin Assignment
0	Type A
5	Type B
8	Type C

Code	Connector Type
S	SC/PC
SB	SC/PC (Board Mount)
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC