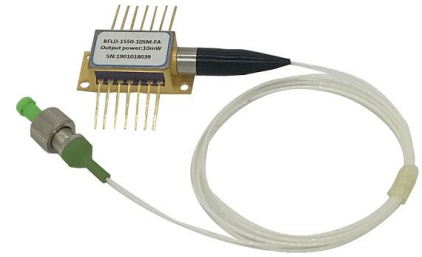


LAN-WDM 10mW Fiber Coupled Laser

1. Features:

- 10mW High output power;
- Industry-standard, 14PIN butterfly package;
- Built-in TEC and optical isolator;
- Multiquantum well (MQW) distributed-feedback (DFB) laser;

Reliability: Telcordia GR-468. RoHS.



2. Applications:

- C/DWDM systems;
- Laser sources;
- CATV systems;
- Fiber optical sensors.

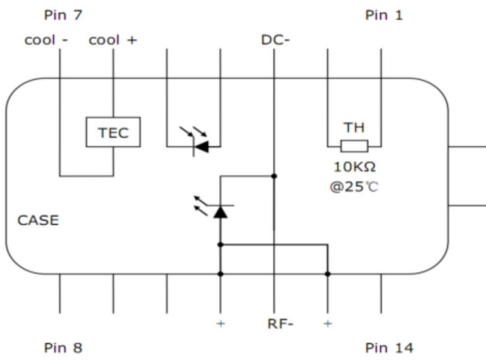
3. Absolute Maximum Ratings:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Storage temperature	T _s	-	-40	-	85	°C
Operating case temperature	T _{op}	-	-20	-	70	°C
LD Forward current	I _F	CW	-	-	120	mA
LD Reverse current	I _R	-	-	-	2	mA
LD Reverse Voltage	V _{LR}	-	-	-	10	V
PD Forward Current	I _{FPD}	-	-	-	10	mA
PD Reverse Voltage	V _{RPD}	-	-	-	20	V
TEC current	I _{TEC}	-	-	-	2.0	A
TEC voltage	V _{TEC}	-	-	-	3.5	V
Fiber bend radius	-	-	30	-	-	mm
Relative humidity	RH	Non condensing	0	-	95	%
Lead soldering time	-	260°C	-	-	10	S
Fiber axial pull force	-	-	-	-	5	N
Fiber side pull force	-	-	-	-	2.5	N

4. Electro-Optical Characteristics(25°C laser temperature):

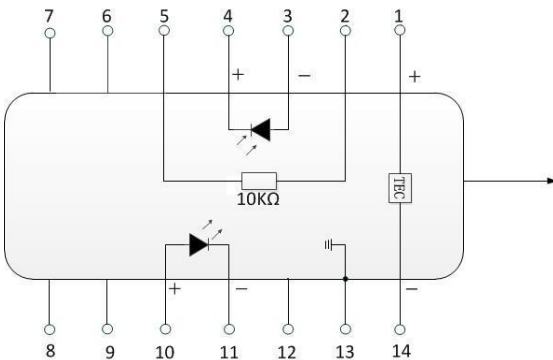
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Center wavelength	λ _c	T _L =15~35°C CW	λ _c -1	λ _c	λ _c +1	nm
Optical output power	P _O	T _L =15~35°C CW	10	-	-	mW
Threshold current	I _{TH}	CW	-	9	13	mA
LD Forward current	I _F	P _F =Rated Power	-	80	100	mA
LD Forward voltage	V _F	P _F =Rated Power	-	-	1.5	V

Type 1



PIN	Description	PIN	Description
1	Thermistor	14	NC
2	Thermistor	13	Laser Anode(+)
3	Laser dc Bias(Cathode)(-)	12	Laser RF Cathode(-)
4	PD Monitor Anode (-)	11	Laser Anode(+)
5	PD Monitor Cathode (+)	10	NC
6	TEC(+)	9	GND
7	TEC(-)	8	GND

Type 2



PIN	Description	PIN	Description
1	TEC(+)	14	TEC(-)
2	Thermistor	13	Case Ground
3	PD Anode	12	NC
4	PD Cathode	11	LD Cathode
5	Thermistor	10	LD Anode
6	NC	9	NC
7	NC	8	NC

7. Ordering Information:

BFLD	-XXXX	-XX	-XX	-XX	X
Laser type	Wavelength	Output power	Fiber type	Connector type	PIN-OUT
DFB Laser	LAN-WDM	10: 10mW Customized	SM : Single mode PM : Polarization maintaining	FA : FC/APC SA : SC/APC Other	NULL: Type 1 2: Type 2

Channel No.	λ_c (nm)	Channel No.	λ_c (nm)	Channel No.	λ_c (nm)
LA01	1266.50	LA08	1296.50	LA15	1315.50
LA02	1271.50	LA09	1301.50	LA16	1320.50
LA03	1276.50	LA10	1304.58	LA17	1325.50
LA04	1281.50	LA11	1306.85	LA18	1330.50
LA05	1286.50	LA12	1309.14	LA19	1335.50
LA06	1286.66	LA13	1310.50	LA20	1340.50
LA07	1291.50	LA14	1311.43	LA21	1345.50