Model FOD3518
Triple Fabry-Perot Pulsed Laser 1310/1550/1650 nm

DESCRIPTION

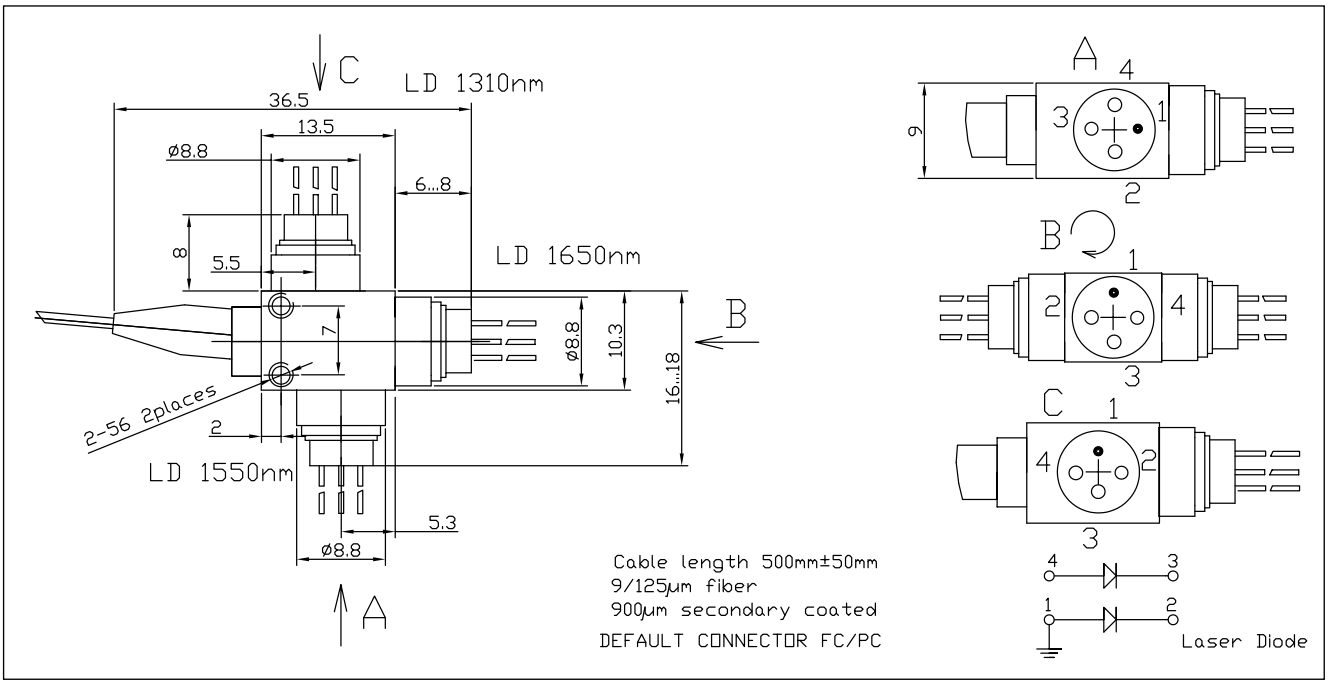
The FOD3518 laser combiner is ideal for applications requiring low power consumption in a broad operating temperature range such as handheld OTDRs. Low threshold and operating currents eliminate the need for external cooling. Fabry-Perot lasers and Back Facet Monitors for each wavelength ensure stable outputs.

A wide wavelength separation offers superior isolation between each channel.

RoHS Compliant

ABSOLUTE MAXIMUM RATINGS			
Parameter	***Symbol***	***Ratings***	***Unit***
Maximum CW Output Power	Pmax	2	mW
Laser Diode Reverse Voltage	Vrld	2	V
Operating Temperature	Top	-10 to +50	°C
Storage Temperature	Tst	-20 to +70	°C
Photodiode Reverse Voltage	Vrpd	20	V

TECHNICAL SPECIFICATIONS at 23°C						
Parameter	***Symbol***	***Test conditions***	***Min.***	***Typ.***	***Max.***	***Unit***
Central Wavelength	**λc**	**Pcw=1mW**	**1290**	**1310**	**1330**	**nm**
Spectral Width	Δλ	Pcw=1mW	-	1	2	nm
Pulse Output Power	Pp*	10% top slope	15	-	-	mW
Threshold Current	Ith	10μW	3	6	15	mA
Operation Current	Iop	Pp=15mW	-	-	250	mA
Operation Voltage	Vop	Pp=15mW	-	2.5	3.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	0.9	mA
Central Wavelength	**λc**	**Pcw=1mW**	**1530**	**1550**	**1570**	**nm**
Spectral Width	Δλ	Pcw=1mW	-	1.5	3	nm
Pulse Output Power	Pp*	10% top slope	15	-	-	mW
Threshold Current	Ith	10μW	3	10	20	mA
Operation Current	Iop	Pp=15mW	-	-	250	mA
Operation Voltage	Vop	Pp=15mW	-	2.4	3.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	1	mA
Central Wavelength	**λc**	**Pcw=1mW**	**1640**	**1650**	**1660**	**nm**
Spectral Width	Δλ	Pcw=1mW	-	2	10	nm
Pulse Output Power	Pp*	10% top slope	15	-	-	mW
Threshold Current	Ith	10μW	-	45	65	mA
Operation Current	Iop	Pp=15mW	-	-	500	mA
Operation Voltage	Vop	Pp=15mW	-	2.4	3.5	V
****duty rate ≤1%, pulse drop <10 %, pulse width 10 μs***						


C
LD 1310nm
36.5
13.5
ø8.8
6...8
8
5.5
LD 1650nm
7
ø8.8
10.3
16...18
B
2-56 2places
2
LD 1550nm
5.3
ø8.8
A
A
4
3
1
2
9
B
1
2
4
3
C
1
4
2
3
4
3
1
2
Cable length 500mm±50mm
9/125μm fiber
900μm secondary coated
DEFAULT CONNECTOR FC/PC
Laser Diode