

Model FOD3512

Triple Laser Diode Module 1310/1490/1550 nm for OTDR



DESCRIPTION

The FOD3512 Pulsed Laser Module is designed specifically for FTTx Certification and Installation applications. Combining the three most common wavelengths for FTTx networks, the compact, cost effective packaging is ideal for hand held OTDR designs. Fabry-Perot lasers provide low coherence noise and low threshold currents for reliable performance and power budgets.

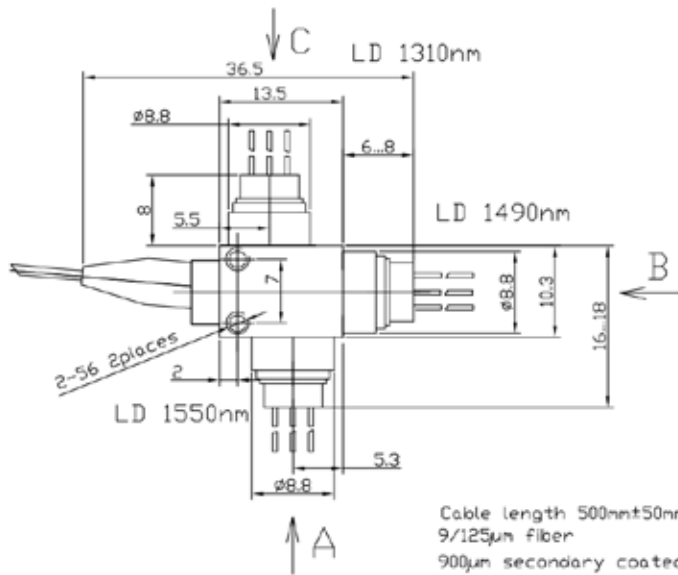
RoHS Compliant



ABSOLUTE MAXIMUM RATINGS			
Parameter	Symbol	Rated	Unit
Maximum CW Output Power	Pmax	2	mW
Maximum Pulse Output Power	Ppmax	20	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	λ_c	Pcw=1mW	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1	3	nm
CW Output Power	Pcw	SMF28e	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	15	-	-	mW
Threshold Current	Ith	10 μ W	-	6	20	mA
Operation Current	Iop	Pp=15mW	-	-	250	mA
Operation Current	Iopcw	Pcw=1.5mW	-	25	30	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	λ_c	Pcw=1mW	1470	1490	1510	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	5	10	nm
Pulse Output Power	Pp*	10% top slope	40	-	-	mW
Threshold Current	Ith	10 μ W	-	25	60	mA
Operation Current	Iop	Pp=40mW	-	-	700	mA
Operation Voltage	Vop	Pp=40mW	-	2.5	3.5	V
Monitor Current	Im	Pcw=1mW	0.01	0.05	0.5	mA
Central Wavelength	λ_c	Pcw=1mW	1530	1550	1570	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1.5	3	nm
CW Output Power	Pcw	SMF28e	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	15	-	-	mW
Threshold Current	Ith	10 μ W	-	10	30	mA
Operation Current	Iop	Pp=15mW	-	-	250	mA
Operation Current	Iopcw	Pcw=1.5mW	-	32	40	mA
Operation Voltage	Vop	Pp=15mW	-	2.4	3.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	1	mA

***duty rate \leq 1%, pulse drop $<$ 10 %**



Cable length 500mm±50mm
 9/125 μ m fiber
 900 μ m secondary coated
 DEFAULT CONNECTOR FC/PC

