

Model FOD3509

Triple Laser Diode Module 1310/1550/1650 nm



DESCRIPTION

The FOD 3509 Triple Laser Module provides a versatile, compact, economical solution for equipment designers. Packaged with the two universal test wavelengths, 1310 and 1550nm, the 3509 adds ultra long 1650 nm for Maintenance, Monitoring and Troubleshooting applications.

RoHS Compliant

- Internal Monitor PD
- High Coupling Efficiency
- Low Threshold Current



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	λ_c	Pcw=2mW	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	Pcw=2mW	-	1	2	nm
CW Output Power	Pcw	SMF28e	2	-	-	mW
Threshold Current	Ith	10 μ W	3	6	15	mA
Operation Current	Iop	Pcw=2mW	-	-	30	mA
Operation Voltage	Vop	Pcw=2mW	-	1.5	2.5	V
Monitor Current	Im	Pcw=2mW	0.1	0.5	1.5	mA
Central Wavelength	λ_c	Pcw=2mW	1530	1550	1570	nm
Spectral Width	$\Delta\lambda$	Pcw=2mW	-	1.5	3	nm
CW Output Power	Pcw	SMF28e	2	-	-	mW
Threshold Current	Ith	10 μ W	3	10	20	mA
Operation Current	Iop	Pcw=2mW	-	-	40	mA
Operation Voltage	Vop	Pcw=2mW	-	1.5	2.5	V
Monitor Current	Im	Pcw=2mW	0.1	0.5	1.5	mA
Central Wavelength	λ_c	Pcw=1.5mW	1645	1650	1655	nm
Spectral Width	$\Delta\lambda$	Pcw=1.5mW	-	0.1	-	nm
CW Output Power	Pcw	SMF28e	1.5	-	-	mW
Single Mode Suppression Ratio	SMSR	Pcw=1.5mW	30	35	-	dB
Threshold Current	Ith	10 μ W	3	10	20	mA
Operation Current	Iop	Pcw=1.5mW	-	-	50	mA
Operation Voltage	Vop	Pcw=1.5mW	-	1.5	2.5	V
Monitor Current	Im	Pcw=1.5mW	0.1	0.5	1.5	mA

