

Model FOD3504

Triple Laser Diode Module 1310/1490/1550 nm



DESCRIPTION

Light Sources and Test Sets based on FOD3504 allow to test FTTH networks at all working wavelengths, test fiber attenuation and real power budget of FTTH lines. Three lasers in compact case make it possible to create small size and reliable test set. Dual stage isolator in 1490 nm channel guarantee good stability of 1490 nm DFB laser.

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	λ_c	Pcw=1mW	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1	3	nm
CW Output Power	Pcw	SMF28e 900 μ	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=1mW	-	16	45	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	1487	1490	1493	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	-	0.1	nm
CW Output Power	Pcw	SMF28e 900 μ	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=1mW	-	20	45	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	1530	1550	1570	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1.5	3	nm
CW Output Power	Pcw	SMF28e 900 μ	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=1mW	-	20	45	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 %**

