

Model FOD3501

Dual Laser Diode Module 1310/1550 nm for OTDR



DESCRIPTION

15mW option of Dual 1310/1550 nm Laser Module made for low cost mass production of hand-held OTDR-s. FOD3501 can work in both CW and pulse modes. FP lasers guarantee low coherent noise.

RoHS Compliant



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Rated	Unit
Maximum CW Output Power	P _{max}	2	mW
Laser Diode Reverse Voltage	V _{rd}	2	V
Operating Temperature	T _{op}	-10 to +50	°C
Storage Temperature	T _{st}	-20 to +70	°C
Photodiode Reverse Voltage	V _{rpd}	20	V

TECHNICAL SPECIFICATIONS at 23°C

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Central Wavelength	λ_c	P_{cw}=1mW	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	P _{cw} =1mW	-	1	2	nm
CW Output Power	P _{cw}	SMF28e	1.5	-	-	mW
Pulse Output Power	P _p *	10% top slope	15	-	-	mW
Threshold Current	I _{th}	10 μ W	3	6	15	mA
Operation Current	I _{op}	P _p =15mW	-	-	250	mA
Operation Voltage	V _{op}	P _p =15mW	-	2.5	3.5	V
Monitor Current	I _m	P _{cw} =1mW	0.1	0.5	0.9	mA
Central Wavelength	λ_c	P_{cw}=1mW	1530	1550	1570	nm
Spectral Width	$\Delta\lambda$	P _{cw} =1mW	-	1.5	3	nm
CW Output Power	P _{cw}	SMF28e	1.5	-	-	mW
Pulse Output Power	P _p *	10% top slope	15	-	-	mW
Threshold Current	I _{th}	10 μ W	3	10	20	mA
Operation Current	I _{op}	P _p =15mW	-	-	250	mA
Operation Voltage	V _{op}	P _p =15mW	-	2.4	3.5	V
Monitor Current	I _m	P _{cw} =1mW	0.1	0.5	1	mA

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

