

Model FOD3506

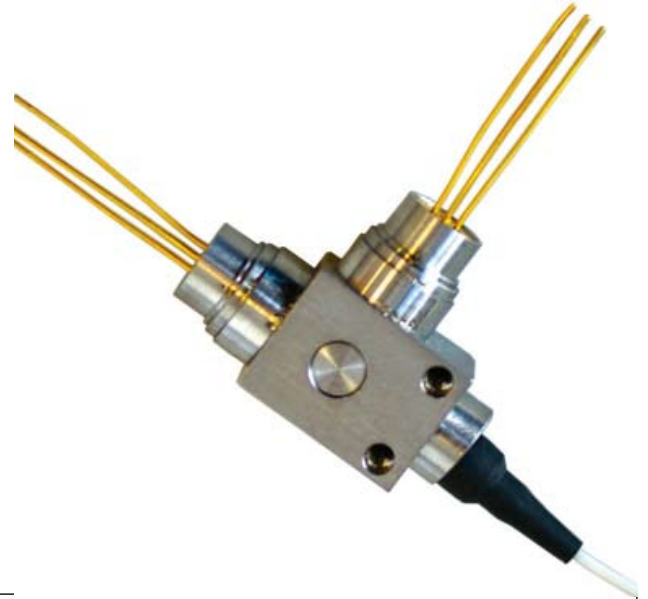
Dual Laser Diode Module 850/1310 nm for OTDR



DESCRIPTION

Fabry-Perot lasers provide good stability in both OTDR and Light Source modes. Internal monitor photodiode is necessary for Automatic Power Control. Low threshold and operating current guarantee low self heating and excellent reliability.

RoHS Compliant



ABSOLUTE MAXIMUM RATINGS			
Parameter	Symbol	Rated	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	830	850	870	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1	2	nm
CW Output Power	Pcw	50/125 μ m	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	35	-	-	mW
Threshold Current	Ith	10 μ W	-	20	40	mA
Operation Current	Iop	Pp=30mW	-	-	250	mA
Operation Voltage	Vop	Pp=30mW	-	3	4.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	-	mA
Central Wavelength	λ_c	Pcw=1mW	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	Pcw=1mW	-	1	2	nm
CW Output Power	Pcw	50/125 μ m	1.5	-	-	mW
Pulse Output Power	Pp*	10% top slope	35	-	-	mW
Threshold Current	Ith	10 μ W	3	6	20	mA
Operation Current	Iop	Pp=30mW	-	-	250	mA
Operation Voltage	Vop	Pp=30mW	-	2.4	3.5	V
Monitor Current	Im	Pcw=1mW	0.1	0.5	1	mA

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

