

# Model FOD3511

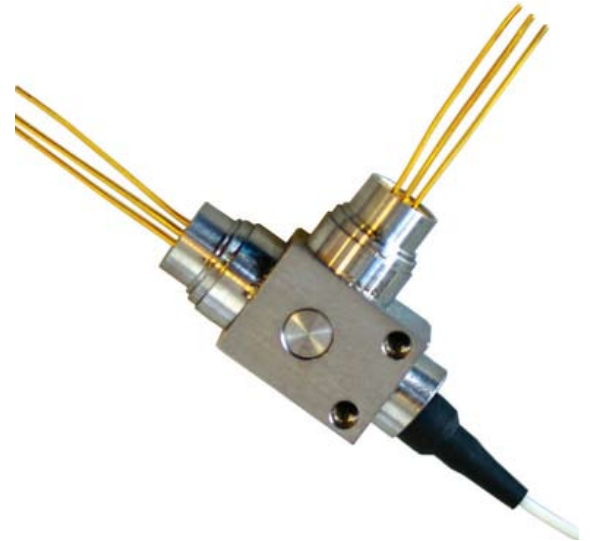
## Dual Laser Diode Module 1490/1650 nm for OTDR



### DESCRIPTION

Unique wavelength composition allows users to create instruments for FTTH 1490 nm measurement and out of band 1650 nm wavelength monitoring of live fibers. DFB lasers with isolator provide wavelength accuracy and temperature stability.

RoHS Compliant



ABSOLUTE MAXIMUM RATINGS			
Parameter	Symbol	Rated	Unit
Maximum CW Output Power	Pmax	1.5	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
<b>Central Wavelength</b>	$\lambda_c$	<b>Pcw=1.3mW</b>	<b>1640</b>	<b>1650</b>	<b>1660</b>	<b>nm</b>
Side Mode Suppression Ratio	SMSR	Pcw=1.3mW	30	35	-	dB
CW Output Power	Pcw	SMF28e	1.3	-	-	mW
Threshold Current	Ith	10 $\mu$ W	-	10	20	mA
Operation Current	Iop	Pcw=1.3mW	-	30	50	mA
Operation Voltage	Vop	Pcw=1.3mW	-	1.2	1.5	V
Monitor Current	Im	Pcw=1.3mW	0.05	0.5	1.5	mA
Internal Optical Isolator	R	Pcw=1.3mW	40	-	-	dB
Polarization Sensitivity	Sp	Pcw=1.3mW	-	-	0.005	dB
Nonstability	$\delta Pt$	1.3mW, 1h, $\delta T=0.1C$	-	-	0.05	dB
<b>Central Wavelength</b>	$\lambda_c$	<b>Pcw=1.5mW</b>	<b>1487</b>	<b>1490</b>	<b>1493</b>	<b>nm</b>
Side Mode Suppression Ratio	SMSR	Pcw=1.5mW	30	35	-	dB
CW Output Power	Pcw	SMF28e	1.5	-	-	mW
Threshold Current	Ith	10 $\mu$ W	-	8	15	mA
Operation Current	Iop	Pcw=1.5mW	-	-	40	mA
Operation Voltage	Vop	Pcw=1.5mW	-	1.1	1.5	V
Monitor Current	Im	Pcw=1.5mW	0.05	0.5	1	mA
Internal Optical Isolator	R	Pcw=1.5mW	40	-	-	dB
Polarization Sensitivity	Sp	Pcw=1.5mW	-	-	0.005	dB
Nonstability	$\delta Pt$	1.5mW, 1h, $\delta T=0.1C$	-	-	0.05	dB

