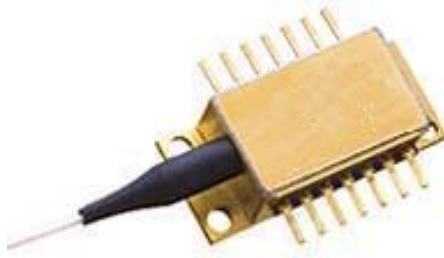


1650 nm DFB laser diode 15mW



1650 nm DFB laser diode in a butterfly-type 14 pin package with thermo-electric cooler. Pigtail fiber is connectorized with an FC/PC connector.

Features :

Wavelength Range 1650nm

Fiber Output Power 15mW

Optical and electrical characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward voltage	V_F	$I_F=30\text{mA}$		1.2	1.6	V
Threshold current	$I_{(TH)}$	CW		15	20	mA
Fiber output power	P_O	CW, $I_F=130\text{mA}$	15			mW
Peak wavelength	λ	CW, $P_O=15\text{mW}$	1625		1655	nm
Spectral linewidth*		CW, $P_O=15\text{mW}$		2		MHz
Side mode suppression ratio	SMS	CW, $P_O=15\text{mW}$	35			dB
Monitoring Current(PD)	$I_{R(E)}$	CW, $P_O=15\text{mW}$	0.1			mA
Dark current(PD)	$I_{r(0)}$	CW, $V_{DR}=5\text{V}$			100	nA
Tracking error	E_R	$I_{R(E)}=\text{constant}$	-0.5		+0.5	dB
Cooling capacity*	T_{PE}	$P_O=15\text{mW}, T_{\text{case}}=70\text{deg}$	45			deg.
Peltier current	I_P	$T_{\text{case}}=-5 \text{ to } 70\text{deg.}$			1	A
Peltier voltage	V_{PE}	$T_{\text{case}}=-5 \text{ to } 70\text{deg.}$			2	V
Thermister resistance*	R	$T_{\text{sub}}=25\text{deg.}$		10		kW
Isolation*	I_s	$T_{\text{sub}}=25\text{deg.}$		30		dB

