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Find the *NEL NLK1556STG* at our website: *Click HERE*

NLK1556STG

1550 nm DFB laser diode in a butterfly-type 14 pin package with thermo-electric cooler.Pigtail fiber is connectorized with an SC/PC connector.

FEATURES

- ●Wavelength Range 1550nm
- ●Fiber Output Power 20mW

LIMITING VALUES(T_{sub}=25℃)

Parameter	Symbol	Ratings	Units
Laser diode reverse voltage	V_R	2.0	V
Laser diode forward current	I_F	225	mA
Operating case temperature	T_{case}	-5 to 70	℃
Storage temperature	T_{stg}	-40 to 85	℃
Photodiode reverse voltage	V_{DR}	10	V
Photodiode forward current	I_{DF}	10	mA
Peltier current	I_P	1.4	A

ELECTRICAL/OPTICAL CHARACTERISTICS(T_{sub}=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward voltage	V_F	I_F=30mA		1.2	1.6	V
Threshold current	$I_{(TH)}$	CW		10	20	mA
Fiber output power	Φ_e	CW,I_F=110mA	20			mW
Peak wavelength	λ_p	CW, Φ_e=20mW	1530	1550	1570	nm
Spectral linewidth*	$\Delta\nu$	CW, Φ_e=20mW		2		MHz
Side mode suppression ratio**	SMS	CW, Φ_e=20mW	35			dB
Monitoring Current(PD)	$I_{R(E)}$	CW, Φ_e=20mW	0.1			mA
Dark current(PD)	$I_{r(0)}$	CW,V_{DR}=5V			100	nA
Tracking error	E_R	$I_{R(E)}$=constant	-0.5		+0.5	dB
Connector return loss	L_R			40		dB
Cooling capacity	ΔT_{PE}	Φ_e=20mW,T_{case}=70℃	45			℃
Peltier current	I_{PE}	T_{case}=-5 to 70℃			1	A
Peltier voltage	V_{PE}	T_{case}=-5 to 70℃			2	V
Thermister resistance*	R	T_{sub}=25℃		10		kΩ
Isolation*	I_s	T_{sub}=25℃		30		dB

$\Delta T = | T_{case} - T_{sub} |$

* Data will not be attached.

** SMS is guaranteed for an operating power of more than 10mW.

WARNING

If you pian to use these pruducts in equipment which could endanger lives in the event of a product failure,please consult an NEL engineer before usage.Improper application of these products may endanger life.To avoid possible iniury,make certain these products are used in a redundent configuration.

1.These product are subject to export regulations and restricitons set forced by the Japanese Government.
2.NTT Electronics Corporatio reserves the right to make changes in design,specification or related information at any time without prior notice.

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