



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

NEL Laser Diodes

2000

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 ($T_{sub}=25^{\circ}C$)

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	$^{\circ}C$
Storage temperature	T_{stg}	-40 to 85	$^{\circ}C$
Photodiode reverse voltage	V_{DR}	10	V
Photodiode forward current	I_{DF}	10	mA
Peltier current	I_P	1.4	A

ELECTRICAL/OPTICAL CHARACTERISTICS ($T_{sub}=25^{\circ}C$)

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_o	CW, $I_F=110mA$	20			mW
Peak wavelength	λ_p	CW, $\Phi_o=20mW$	1530	1550	1570	nm
Spectral linewidth*	$\Delta \nu$	CW, $\Phi_o=20mW$		2		MHz
Side mode suppression ratio**	SMS	CW, $\Phi_o=20mW$	35			dB
Monitoring Current (PD)	$I_{(RE)}$	CW, $\Phi_o=20mW$	0.1			mA
Dark current (PD)	$I_{(0)}$	CW, $V_{DR}=5V$			100	nA
Tracking error	E_R	$I_{(RE)}$ =constant	-0.5		+0.5	dB
Connector return loss	L_R			40		dB
Cooling capacity	ΔT_{PE}	$\Phi_o=20mW, T_{case}=70^{\circ}C$	45			$^{\circ}C$
Peltier current	I_{PE}	$T_{case}=-5$ to $70^{\circ}C$			1	A
Peltier voltage	V_{PE}	$T_{case}=-5$ to $70^{\circ}C$			2	V
Thermister resistance*	R	$T_{sub}=25^{\circ}C$		10		k Ω
Isolation*	I_s	$T_{sub}=25^{\circ}C$		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 plan to use these products 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 injury, make certain these products are used in a redundant configuration.

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



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com