

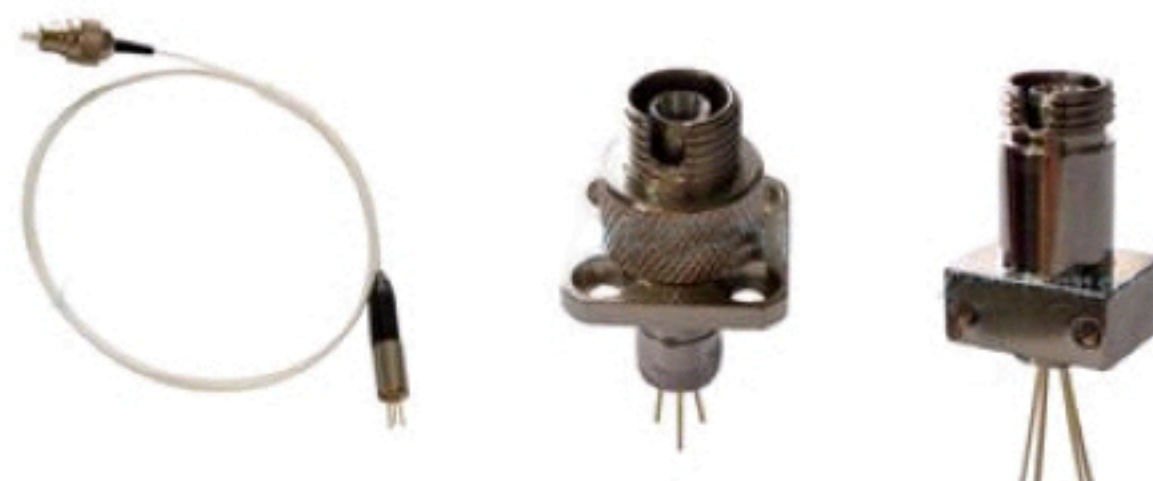
1550nm DFB SM coaxial laser diode

Version: 3.1 17-03-01

Model: LSDLD155

Features:

- MQW-DFB, High reliable
- Single mode
- Good high temperature characteristic
- High side-mode-suppression ratio (typical>35dB)
- Built-in monitor PD
- Low threshold/operate current
- Metal can type hermetic



Applications:

- Optical Sensing
- Optical communication
- Industrial automatic control
- Science analysis and experiment
- Test and Measurement Equipment

Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~ +85	℃
Storage temperature	Tstg	-40~ +100	℃
Laser diode Reverse voltage	V _r	2	V
Soldering temperature/time		260/10	℃/S

Electrical and optical characteristics:(T=25℃)

parameter	symbol	Min.	Typ,	Max.	unit
Center wavelength	λ	1530	1550	1570	nm
Threshold Current	I _{th}		10	15	mA
Operating Current	I _{op}		35	40	mA
Operating Voltage	V _{op}		1.2	1.5	V
Output power(from fiber)	P	0.5	2	4	mW
Spectral width	$\Delta\lambda$		0.3	1	nm
Side mode suppression ratio	SMSR	35	40		dB
Wavelength/Temp. Coefficient	$\Delta\lambda/\Delta T$		0.1		nm/℃
Rise/ Fall time	Tr/Tf(I _{th} +20mA)		0.3	0.7	ns
Monitoring Output Current	I _m (I _{th} +20mA)	0.1	0.7		mA
Monitor Dark current	I _d (V _r =5V)			100	nA
Monitor Capacitance	C (V _r =5V)		10		pF
Optical Isolation(note 1)	Iso	30			dB Single
		50			dB Double
package	TO56 Can with SM fiber coupling or receptacle				

Note1: temperature range:-20~70℃

NOTICE: The above product specifications are subject to change without notice.