

LQx - 1550 - 1.5 e / mechanical package

Description

This device is a Laser diode whether in receptacle for singlemode/ multimode fiber or with singlemode/ multimode/ polarization maintaining pigtail. Beside standard receptacles as SMA, DIN, ST, FC, SC and E2000 customized packages are offered. They can be used as an emitting device in communication systems and other similar applications.



This picture gives only an impression how the real device will look like.

Fiber options x	Mechanical packages	
	Laser Socket Receptacle	SOT242 Pigtail
LQ5-50/125 μm, multimode fiber	x	x
LQ6-Core diameter acc. to wavelength, singlemode fiber ¹	x	x
LQ7-Core diameter acc. to wavelength, polarization maintaining fiber ²		x

Note 1...9/125μm for receptacle devices; note2...polarisation maintaining fiber for pigtailed devices only

Maximum ratings

T_c=25°C±2°C

Parameter	Symbol	min.	typ.	max.	Unit
Reverse Voltage Laser Diode	V _{R Laser}			2	V
Reverse Voltage Monitor Diode	V _{R Mon}			15	V
Operating Temperature	T _{op} = T _c	-40		+85	°C
Storage Temperature	T _{stg}	-40		+85	°C
Soldering Temperature / - Time	T _{sold}				°C/s

Optical and Electrical Characteristics

T_c=25°C±2°C

Parameter	Laser class	Symbol	min.	typ.	max.	Unit
Fiber Coupled Power	1 ^{Note1}	P _{fiber} ^{Note2}	1.5			mW
Threshold Current		I _{th}		12	15	mA
Operating Current		I _{op}				mA
Operating Voltage		V _{op}		1.2	1.5	V
Wavelength		λ	1520	1550	1580	nm
Monitor Current		I _{mon}	0.1			mA

Note 1: Considering worst case, fiber unplugged and laser diode driven above max. ratings.

Note 2: Measured at the exit of 1 meter of fiber.

For detailed information as receptacle dimensions and pin out see our web side or contact OECA sales team.

Please note: Information given in this product information is believed to be accurate and reliable. However no responsibility is assumed for the consequences of its use nor for any infringement of patents or other rights of third parties. No license is granted by implication or otherwise under any patent or patent rights of OECA or HIV GmbH. These products are sold only according to OECA or HIV GmbH's general conditions of sale, unless otherwise confirmed in writing by OECA or HIV GmbH. Product specifications are subject to change without notice.

For further information on technology, delivery terms and conditions and prices please contact your nearest OECA or HIV GmbH office or one of our representatives.

Copyright 2004, OECA Opto-Elektronische Komponenten und Applikations GmbH. – Last update 12/2008
All Rights reserved.

OECA

handwerkerstraße 13
Phone: +49 (0) 3342 36880
Mail: info@oeca.de

OPTO-ELEKTRONISCHE
COMPONENTEN
UND APPLIKATIONS GMBH
15366 Hoppegarten
Fax: +49 (0) 3342 3688 88
Internet: www.oeca.de

represented by:

HIV

Rosenstraße 1
Phone: +49 (0) 6834 96070
eMail: info@halbleiter-iv.de

HALBLEITER - IMPORT UND VERTRIEBS GMBH

66787 Wadgassen
Fax: +49 (0) 6834 9607 37
Internet: www.halbleiter-iv.de

DIN EN ISO 9001:2000
Certificate: TNO80629OG