

## LQx - 408 - 12 c / 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 <sup>1</sup>	x	x
LQ7-Core diameter acc. to wavelength, polarization maintaining fiber <sup>2</sup>		x

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

### Maximum ratings

T<sub>c</sub>=25°C±2°C

Parameter	Symbol	min.	typ.	max.	Unit
Reverse Voltage Laser Diode	V <sub>R Laser</sub>			5	V
Reverse Voltage Monitor Diode	V <sub>R Mon</sub>			20	V
Operating Temperature	T <sub>op</sub> = T <sub>c</sub>	-10		+60	°C
Storage Temperature	T <sub>stg</sub>	-35		+85	°C
Soldering Temperature / - Time	T <sub>sold</sub>				°C/s

### Optical and Electrical Characteristics

T<sub>c</sub>=25°C±2°C

Parameter	Laser class	Symbol	min.	typ.	max.	Unit
Fiber Coupled Power	3B <sup>Note1</sup>	P <sub>fiber</sub> <sup>Note2</sup>	12			mW
Threshold Current		I <sub>th</sub>		40	50	mA
Operating Current		I <sub>op</sub>		85	110	mA
Operating Voltage		V <sub>op</sub>		4.6	5.5	V
Wavelength		λ	400	408	415	nm
Monitor Current		I <sub>mon</sub>	0.1	0.3	0.5	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](mailto:info@oeca.de)

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

represented by:

DIN EN ISO 9001:2000  
Certificate: TNO80629OG

## HIV

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

## HALBLEITER - IMPORT UND VERTRIEBS GMBH

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