

## LQx - 658 - 15 a / 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 $\mu\text{m}$ , 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...9/125 $\mu\text{m}$  for receptacle devices; note2...polarisation maintaining fiber for pigtailed devices only

### Maximum ratings

$T_c=25^\circ\text{C}\pm 2^\circ\text{C}$

Parameter	Symbol	min.	typ.	max.	Unit
Reverse Voltage Laser Diode	$V_{R \text{ Laser}}$			2	V
Reverse Voltage Monitor Diode	$V_{R \text{ Mon}}$			30	V
Operating Temperature	$T_{op} = T_c$	-10		+60	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40		+85	$^\circ\text{C}$
Soldering Temperature / - Time	$T_{sold}$				$^\circ\text{C/s}$

### Optical and Electrical Characteristics

$T_c=25^\circ\text{C}\pm 2^\circ\text{C}$

Parameter	Laser class	Symbol	min.	typ.	max.	Unit
Fiber Coupled Power	3B <sup>Note1</sup>	$P_{\text{fiber}}$ <sup>Note2</sup>	15			mW
Threshold Current		$I_{th}$		30	50	mA
Operating Current		$I_{op}$		65	85	mA
Operating Voltage		$V_{op}$		2.4	2.8	V
Wavelength		$\lambda$	650	658	665	nm
Monitor Current		$I_{mon}$	0.3	0.5	0.7	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.

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