

Light is OSRAM

15.01.2021

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

Objective	Update of Data Sheet for PL 450B and PLT5 450B based on laser chip improvement acc. to OS-IN-2017-021	
Products affected	PL 450B PLT5 450B	
Background	<ul style="list-style-type: none"> ▪ Change A: Change of typical peak output power Raise of typical peak output power based on laser diode chip improvement. ▪ Change B: Change of typical and maximum operating current specifications Raise typical and maximum operating current based on laser diode chip improvement. ▪ Change C: Change of typical and maximum forward voltage specifications Raise typical and maximum forward voltage based on laser diode chip improvement. 	
Realization	Please refer to 1_cip_OS-IN-2021-003	
Time Schedule	New datasheet available Start of Delivery	Dec 22 nd 2020 Mid of Jan 2021
Assessment	No change in fit, form and reliability of the laser diode	

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OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

Customer Information Package

OS QM CQM ICI | 15.01.2021

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OS-IN-2021-003

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OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

1. Background

A) Change A: Change of typical peak output power

Raise of typical peak output power based on laser diode chip improvement acc. to OS-IN-2017-021.

B) Change B: Change of typical and maximum operating current specifications

Raise typical and maximum operating current based on laser diode chip improvement acc. to OS-IN-2017-021.

C) Change C: Change of typical and maximum forward voltage specifications

Raise typical and maximum forward voltage based on laser diode chip improvement acc. to OS-IN-2017-021.

Assesment:

No change in fit, form and reliability of the laser diode

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

2. Affected Products

- PL 450B Q65111A0518
- PLT5 450B Q65111A7459

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

3. Change A:

Status	Change A (Change of typical peak output power)		
Current	PL 450B, PLT5 450B:	<p>Ordering Information</p> <p>Peak output power typ. P_{opt}</p> <hr/> <p>80 mW</p>	<p>Characteristics</p> <p>$P_{opt} = 80 \text{ mW}; T_{case} = 25 \text{ }^\circ\text{C}$</p>
New	PL 450B, PLT5 450B:	<p>Ordering Information</p> <p>Peak output power typ. P_{opt}</p> <hr/> <p>100 mW</p>	<p>Characteristics</p> <p>$P_{opt} = 100 \text{ mW}; T_{case} = 25 \text{ }^\circ\text{C}$</p>

NEW

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

3. Change B:

Status	Change B (Change of typical and maximum operating current specifications)				
Current (@ 80mW)	PL 450B:	Operating current	I_{op}	typ. max.	75 mA 125 mA
	PLT5 450B:	Operating current ¹⁾	I_{op}	typ. max.	75 mA 145 mA
New (@ 100mW)	PL 450B:	Operating current	I_{op}	typ. max.	90 mA 145 mA
	PLT5 450B:	Operating current ²⁾	I_{op}	typ. max.	90 mA 165 mA

NEW

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

3. Change C:

Status	Change C (Change of typical and maximum forward voltage specifications)							
Current (@ 80mW)	PL 450B, PLT5 450B:	Forward voltage	V_F	<table border="1"> <tr> <td>typ.</td> <td>5.2 V</td> </tr> <tr> <td>max.</td> <td>6.5 V</td> </tr> </table>	typ.	5.2 V	max.	6.5 V
typ.	5.2 V							
max.	6.5 V							
New (@ 100mW)	PL 450B, PLT5 450B:	Forward voltage ⁴⁾	V_F	<table border="1"> <tr> <td>typ.</td> <td>5.5 V</td> </tr> <tr> <td>max.</td> <td>7.0 V</td> </tr> </table>	typ.	5.5 V	max.	7.0 V
typ.	5.5 V							
max.	7.0 V							

NEW

OS-IN-2021-003

Update of Data Sheet for PL 450B and PLT5 450B

4. Time Schedule

- New data sheet available: Dec 22nd 2020
- Start of Delivery: Mid of Jan 2021

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Thank you.