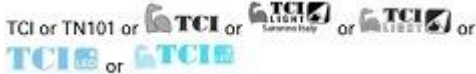


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License Holder	TCI TELECOMUNICAZIONI ITALIA S.R.L. VIA PARMA 14 SARONNO, VA, 21047 ITALY
Production site	TCI TELECOMUNICAZIONI ITALIA S.R.L. VIA PARMA 5 SARONNO, VA, 21047 ITALY
Certification Mark	See Annex 1
Certified Product	Built-in LED Module
Model	aaMbxxxx/yyeezzzp nnnnnn/iccss See Page 2-3 for additional Information
Trademark	
Ratings	Max: 2750 mA DC tc: 90 °C See Page 2-3 for additional ratings
Tested acc. to	EN IEC 62031:2020, EN IEC 62031:2020/A11:2021
Test Report No.	4790875716.1 issued on 2023-10-09
Additional Information	This certificate replaces the certificate no. ENEC-03304-M3 issued on 2022-12-29

Certification Manager
Thomas Wilson

Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

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Additional Model(s):

Type	Max. input current (A) at 0 Hz	Max. input power (W)	Max. power density (W/cm ²)	t _c (°C)	Notes
aaMxxxx/yyeezzzp nnnnnn/iccss	2,75	75	0,94	85	0,34...0,75 mm ² terminal block or headers connector or pads
aaMbxxxx/yyeezzzp nnnnnn/iccss	0,7	7	0,2	80	Cable with connector or tails
SLMxxxx/yyeezzzp nnnnnn/iccss	2,0	151,2	0,7	90	Metal core pwb 0,34...0,75 mm ² terminal block or headers connector or pads

Speaking code meaning:

- **aa**= one or two characters for shape: **L** (linear module); **BL** (linear module); **S** (square module); **F** (finger module); **R** (round module).
- **M**= fixed character = Module.
- **b**= one character (it may be missing) for enclosure type (if present); **P**=enclosure extruded white; **N**=nero, enclosure extruded black.
- **xxxx**= one to four characters, 1st module dimension: length or diameter (20-1400 mm).
- **/**= fixed character, separator, missing if 2nd module dimension is not present.
- **yyy**= one to three characters (it may be missing), 2nd module dimension: width (10-233 mm).
- **ee**= one or two characters; any alphanumeric character(s).
- **zzz**= one to three characters; LED numbers (1-220).
- **p**= one character; position of connector; it may be missing when mounted on the top side or **L** when mounted on the bottom side; **P** pads for soldering of connections.
- **nnnnnn**= Six characters; commercial code.
- **/**= fixed character, separator, missing if following characters are not present.
- **i**= one character (**7- 9**); color rendering index (CRI/10).
- **cc**= two characters (**27-65**); correlated colour temperature, CCT/100;
T1 is tunable white with 2700/4000 K;
T2 is tunable white with 2700/5700 K;
T3 is tunable white with 2700/6500 K;
T4 is tunable white with 3000/5000 K;
T5 is tunable white with 2700/5000 K;
T6 is tunable white with 3000/4000 K (except for LED LM281B+);
T7 is tunable white with 2000/3000 K;
T8 is tunable white with 2400/3000 K;
T9 is tunable white with 2000/4000 K (except for LED LM281B+).

Certification Body

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- ss= Missing or one or two characters:

LED Type	ss	Max Current
LM561B	R or missing	max. I _F =180 mA
LM561B+	S	max. I _F =180 mA
LM281B	E	max. I _F =150 mA
LM301B	V	max. I _F =200 mA
2835C (Luxeon)	L	max. I _F =240 mA
LM281B+	H BB, BC, CA, W, WR, AD	max. I _F =160 mA max. I _F =200 mA max. I _F =200 mA
LM281B+ PRO	BR, BS, BX CK	max. I _F =200 mA max. I _F =250 mA
LM281B+ PRO VM rank	DI	max. I_F=200 mA
LM301B EVO	DB	max. I_F=200 mA
LM301D	AP	max. I _F =180 mA
LM302D	AM	max. I _F =200 mA
LH351B	M	max. I _F =1500 mA
LH351C	I	max. I _F =2000 mA
LH502C	BE	max. I _F =880 mA
LH502D	CV	max. I _F =800 mA
LUXEON 2835 HE	CE	max. I_F=150 mA
LUXEON 5050 HE	DE	max. I_F=800 mA
LUXEON 5050 Round LES	G	max. I_F=800 mA

Ratings:

The maximum working voltage for insulation of LED module is:

LED model/type	Max. voltage	Minimum distance for insulation design	Working voltage for insulation design
LM837/14L80 128636/8ccL LM837/14E80 128636/8ccAD LM558/14E36L 128828/8ccAD	125 V	3,1 mm basic	310 V (between traces ↔ lateral accessible surface)
representative models of aaMxxxx/yyyyezzzp nnnnnn/iccss	120 V	2,7 mm SELV	270 V (between traces ↔ lateral accessible surface)
representative models of aaMbxxxx/yyyyezzzp nnnnnn/iccss	10 V	3,2 mm basic	320 V (between tails ↔ accessible surface of enclosure/cable)
representative models of SLMxxxx/yyyyezzzp nnnnnn/iccss	76,6 V	4,2 mm SELV	420 V (between traces ↔ lateral accessible surface)
		through insulation basic	150 V (between traces ↔ metal core)

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Annex 1 to License No.

ENEC-04574

Annex of the form of the Mark



15 is the identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that it remains legible and that the ratio $b/a=1,7$ is kept.

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