DATA SHEET
GLV9_R74151 Series

Part of the simpleLED® Program

simpleLED GLV9_R74151 SERIES

The light engine series consist of 3 high power LUXEON Rebel LEDs. It is engineered to provide customers with the flexibility to select the optimal light source for their applications. Customers also have the option of modifying their light engine by selecting their preferred LUXEON Rebel LED, optic and/or connector that best suits the application.

FEATURES & BENEFITS

3 year manufacture (GL-Lighting) warranty

High-reliability LED sources

Wide operational temperature range

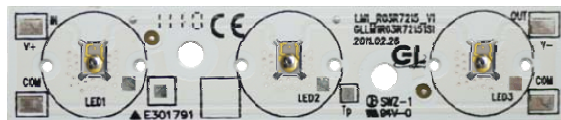Multiple configurable options

Multiple optic options

Wide range of drive current
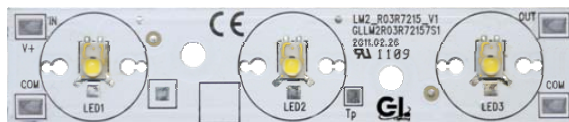
Multiple CCT's available

3 LEDs in series

Short lead time

CE certified, UL recognized

GLV91R74151

TYPICAL APPLICATIONS

Directional lighting

Track lighting

Accent lighting

Display lighting

Recessed down lighting

GLV92R74151

Note: All specifications are subject to change without notice.

simpleLED GLV9_R74151 WARM WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4 / MCPCB
Finish		White
Size		L 74mm x W 15mm
Source Type		LUXEON Rebel LXM8-PW30
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CN	TYCO 1-2106003-2
Thermal Resistance (p-n junction to Tp)		Rth= 21 K/W (FR4) Rth= 14 K/W (MCPCB)
Rated Lumen Tp=25°C @350mA		>=240lm
CCT		3045k
CRI		Min. 80
Tp Maximum Temperature		80 ^{O}C

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @350mA & Tp=25°C	7.5	9	9.75
Power Consumption @350mA (W)	2.63	3.15	3.4
Efficacy (lm/Watt) @350mA, Tp=25°C	>=70	>=76	>=91

Driving Current	100mA	350mA	700mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (^{O}C)	-40	+85
Tp Temperature (^{O}C)	-40	+80

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simpleLED GLV9_R74151 <u>NEUTRAL</u> WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4 / MCPCB
Finish		White
Size		L 74mm x W 15mm
Source Type		LUXEON Rebel LXML-PWN2
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CN	TYCO 1-2106003-2
Thermal Resistance (p-n junction to Tp)		Rth= 17K/W (FR4) Rth= 10 K/W (MCPCB)
Rated Lumen Tp=25°C @700mA		>=600lm
CCT		4100k
CRI		Min. 60
Tp Maximum Temperature		80 ^{O}C

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	7.5	9	10.5
Power Consumption @700mA (W)	5.25	6.3	7.35
Efficacy (lm/Watt) @700mA, Tp=25°C	>=81	>=95	>=114

Driving Current	100mA	700mA	1000mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (^{O}C)	-40	+85
Tp Temperature (^{O}C)	-40	+80

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simpleLED GLV9_R74151 <u>COOL</u> WHITE SERIES

PARAMETER		CONDITIONS
PCB		FR4 / MCPCB
Finish		White
Size		L 74mm x W 15mm
Source Type		LUXEON Rebel LXML-PWC2
Connector	00	Solder Pad
	20	20cm UL1007 20Awg
	CN	TYCO 1-2106003-2
Thermal Resistance (p-n junction to Tp)		Rth= 17K/W (FR4) Rth= 10 K/W (MCPCB)
Rated Lumen Tp=25°C @700mA		>=600lm
CCT		5650k
CRI		Min. 60
Tp Maximum Temperature		80 ^{O}C

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYPICAL	MAX
Forward Voltage (V) @700mA & Tp=25°C	7.5	9	10.5
Power Consumption @700mA (W)	5.25	6.3	7.35
Efficacy (lm/Watt) @700mA, Tp=25°C	>=81	>=95	>=114

Driving Current	100mA	700mA	1000mA

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	MIN	MAX
Storage Temperature (^{O}C)	-40	+85
Tp Temperature (^{O}C)	-40	+80

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MECHANICAL DRAWINGS (GLV91R74151 / FR4)

2D drawing with dimensions: (Unit: mm)

Tp
(scale: 6:1)

GLV91R74151/00
 (with solder pads only)

Tp
(scale: 6:1)

GLV91R74151/20
 (with 200mm , 20Awg wire)
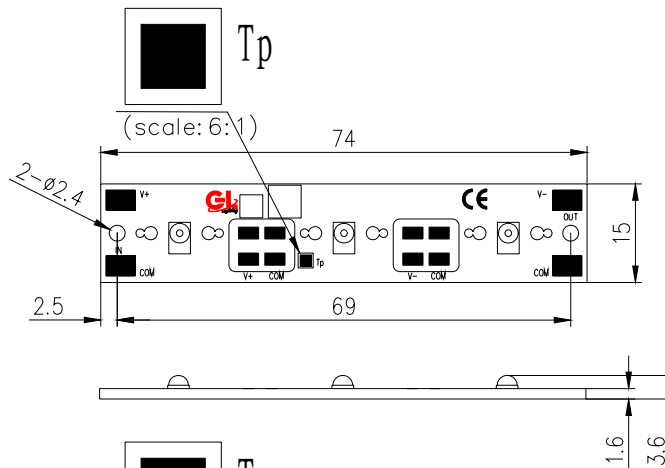
Tp
(scale: 6:1)

GLV91R74151/CN
 (with connector)
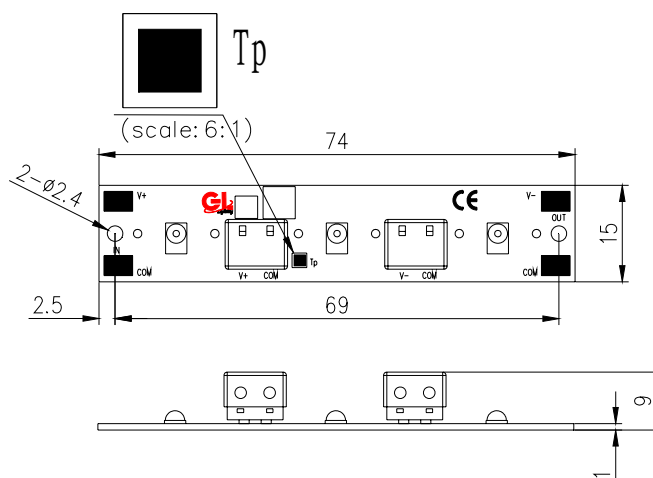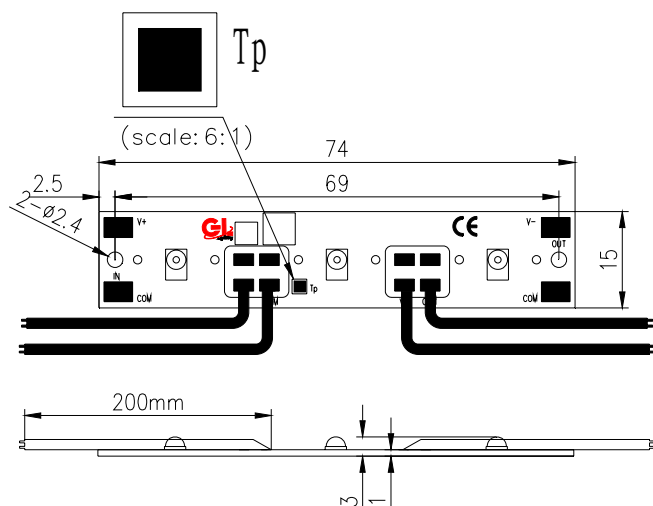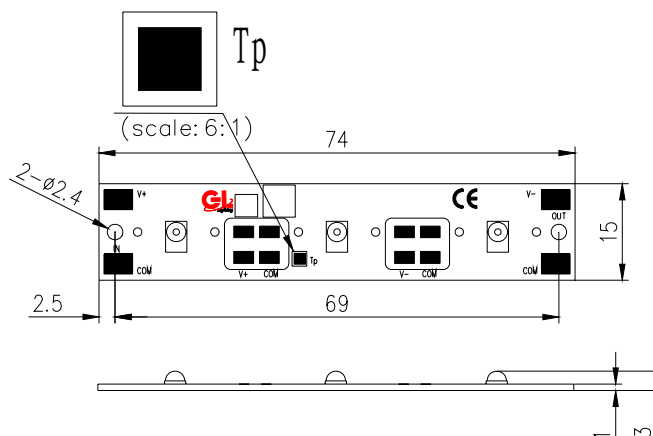
Note: All specifications are subject to change without notice.

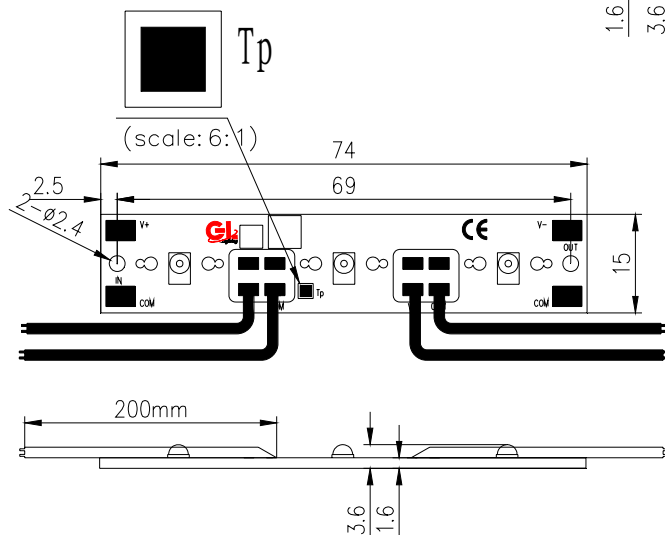# MECHANICAL DRAWINGS (GLV92R74151 / MCPCB)

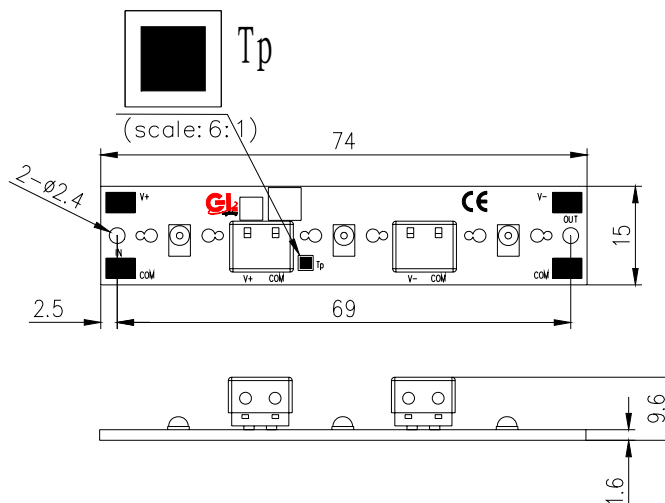2D drawing with dimensions: (Unit: mm)

GLV92R74151/00

 (with solder pads only)
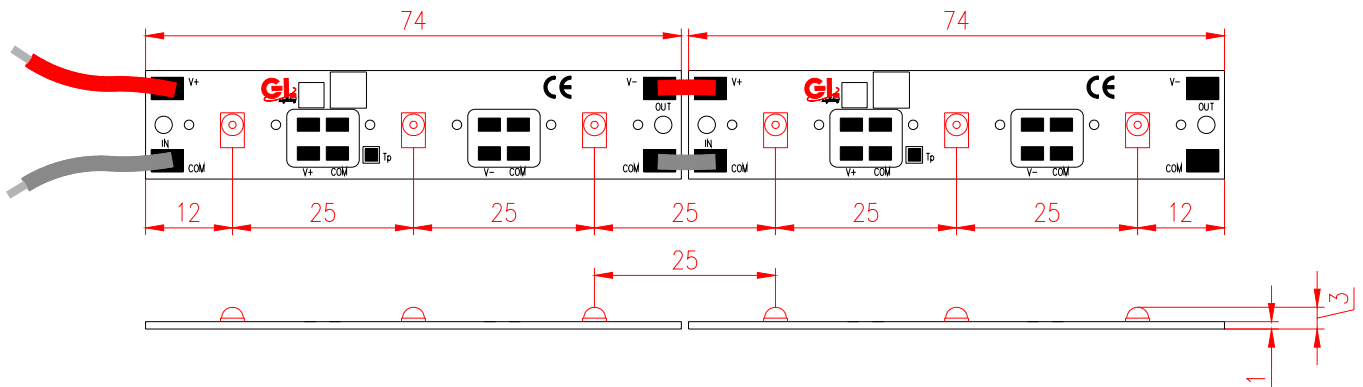
GLV92R74151/20

 (with 200mm , 20Awg wire)

GLV92R74151/CN

 (with connector)

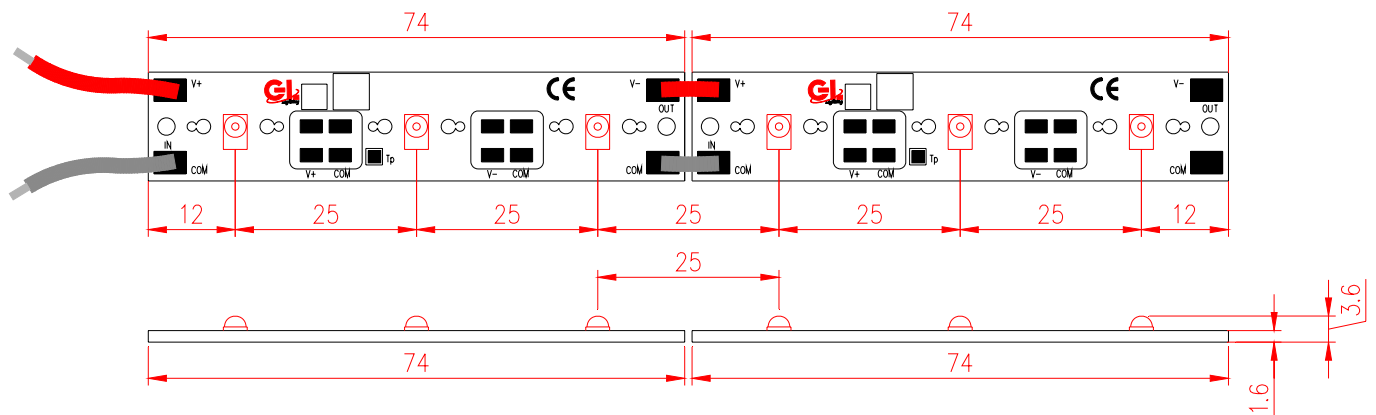Note: All specifications are subject to change without notice.

PCB SERIES DRAWINGS

2D drawing with dimensions: (Unit: mm)

Pic.1 FR4 (Example：GLV91R74151/00)

Pic.2 MCPCB (Example：GLV92R74151/00)

* When the PCB connect in series, the spacing of LED will always be equal.

Note: All specifications are subject to change without notice.

PART NUMBERING & ORDERING INFORMATION

1. PRODUCT SERIES

GLV91R74151

Rectangle FR4 with 3 LEDs in series

GLV92R74151

Rectangle MCPCB with 3 LEDs in series

2. CONNECTOR TYPE

00 – Solder Pad

20 – 20cm UL1007 20Awg

CN – TYCO 1- 2106003-2

3. LED TYPE

LL - LXML LUXEON REBEL

LB - LXM8 LUXEON REBEL

LG - LXML LUXEON REBEL ES

4. NUMBER OF LED

03 - 3 LEDs

5. CCT

S30 – 3000K ANSI

D40 – 4000K

S40 – 4000K ANSI

W00 – 5600K

S50 – 5000K ANSI

6. FLUX BIN

L – Min 80lm@350mA

N – Min 100lm@350mA

R – Min 160 Lumens@700mA

S – Min 180 Lumens@700mA

T – Min 200 Lumens@700mA

7. OPTICS

0BS – 15/22 Degree, single lens

0BN – 27 Degree, single lens

0BF – 38/43 Degree, single lens

Part Number :

GLV9*R74151 / AA – BB CC DDD E FFF

1   2   3   4   5   6   7

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ACCESSORIES FOR LENS

•Single Lens

No.	BRAND	MANUFACTURER PART #	SIZE	LUXEON REBEL	LUXEON REBEL ES	HOLDER
1		GLVA1BS01Y	θ13.5x7.3mm	15°	22°	Yes
2	GL	GLVA1BN01Y	θ13.5x7.3mm	27°	27°	Yes
3		GLVA1BF01Y	θ13.5x7.3mm	38°	43°	Yes

Part Number :

GLVA1   BS   01   Y
   1   2   3   4

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1. ACCESSORIES CATEGORY NUMBER

GLVA1

Optics Number

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2. OPTICS ANGLE

BS – 15/22 Degree Lens

BN – 27 Degree Lens

BF – 38/43 Degree Lens

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3. LENS NUMBER

01 – Exclude DF, 1 Lens, With Holder

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4. RING / HOLDER

Y – With Holder Only

Note: All specifications are subject to change without notice.

COMPANY INFORMATION

About Future Lighting Solutions

Future Lighting Solutions (www.futurelightingsolutions.com) is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

About simpleLED®

Future Lighting Solutions simpleLED program has over 500 combinations of LUXEON® LED & Optic configurations, enabling you to select the right Light Engine for your application, eliminate prototyping delays and accelerating time to market. Additional benefits include UL recognized quality and a 3 year warranty. Visit our website and start innovating.

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Note: All specifications are subject to change without notice. Warranty provided by the manufacturer, GL-Lighting.