1.1

CREATIVE GMBH LED

Preliminary Product Specification
Feb 2018

# LED-FlashMODULE Cold-White CQV28910W120F-WC

Feature :

* General propose WHITE-High-Power LED-Module

* Flash-lighting for strong brightness

* 8 Blocks a 13 LED Series * 9 Parallel

* Voltage power range within Safety-Voltage range

* CRI = 70 ...80

* High-Light conformity

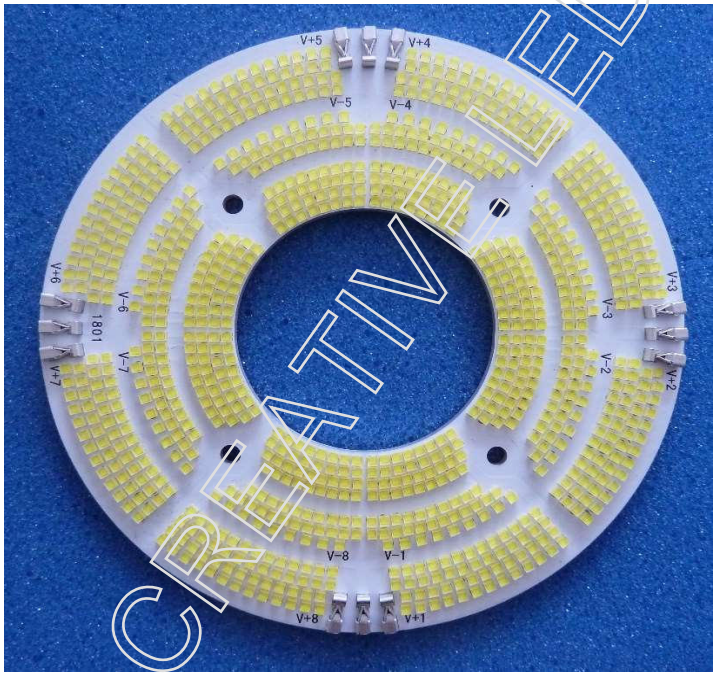
* Very low thermal resistant based on MCPCB -Technology

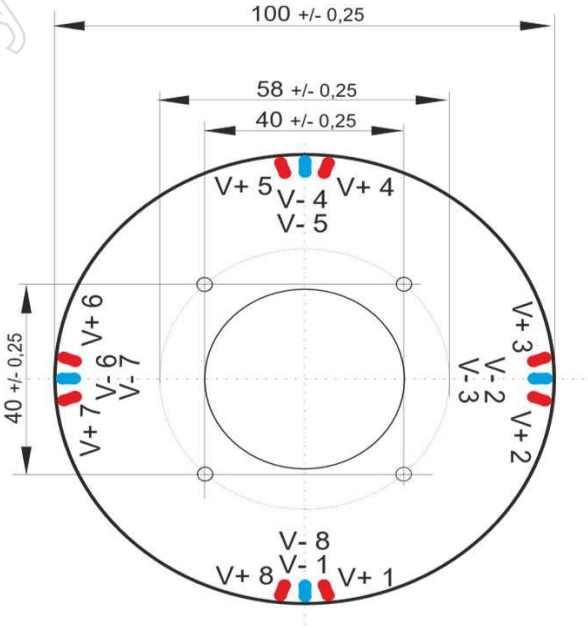
* MCPCB Thickness > 2,2mm

* 936 pieces LED on board with wire connector

* Modul-Diameter 100mm with 40mm Hole for Camera- / -lens

* RoHS and REACH Conform in Latest Version




* Package formes and Connection:

| | |
|---|---|
| Field 1 | V+1 = Anode LED 1; V-1 = Cathode LED 9 |
| Field 2 | V+2 = Anode LED 1; V-2 = Cathode LED 9 |
| Field 3 | V+3 = Anode LED 1; V-3 = Cathode LED 9 |
| Field 4 | V+4 = Anode LED 1; V-4 = Cathode LED 9 |
| Field 5 | V+5 = Anode LED 1; V-5 = Cathode LED 9 |
| Field 6 | V+6 = Anode LED 1; V-6 = Cathode LED 9 |
| Field 7 | V+7 = Anode LED 1; V-7 = Cathode LED 9 |
| Field 8 | V+8 = Anode LED 1; V-8 = Cathode LED 9 |

**Attention : This product can generate a high level risks for human eyes and body acc. IEC 825 and EN62471!**
Attention : This product **cannot be driven in high-voltage mode** and it is to attend the safety standards!

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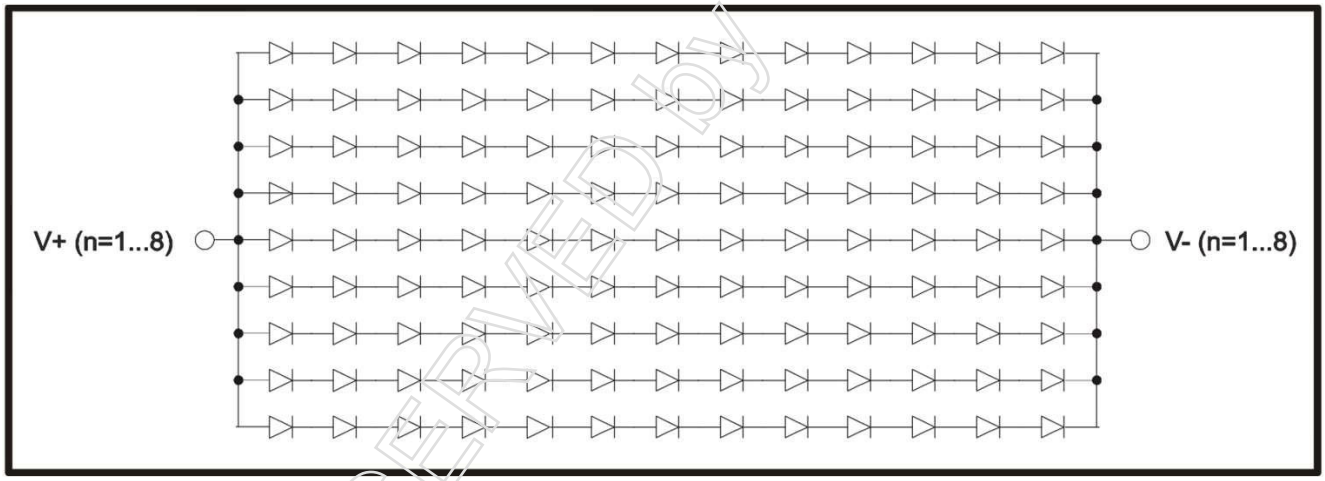
## Optical and Electrical Characteristics @Tambient =25°C

| Symbol | Parameter | MIN | Typ | MAX | Unit | Test conditions |
|---|---|---|---|---|---|---|
| $V_F$ | Forward Voltage one block | 38 | | 48 | V | If = 4500mA (each BLOCK) |
| $I_F$ | Forward Current DC each Row | | 700 | 1000 | mA | |
| $I_e$ | Luminous Radiance | 94 | | | KLm | Value if each LED-Chip for If=350mA |
| $I_e$ | Luminous Radiance | 120 | | | KLm | Value if each LED-Chip for If=500mA |
| $N_{lm}$ | Lumen efficiency | 120 | 140 | | lm/W | Value of each LED-Chip for If=350mA |
| CCT | Color Temperature | 5000 | | 6000 | K | |
| CRI | Randering Index | 70 | | 80 | | |
| $2\Phi_{0,5}$ | Emission Angle * | | 150 | | deg. | $F_E$ = 50% |
| $T_{Operating}$ | Operating Temperature * | - 25 | | 60 | °C | Tjunction < 120°C |
| $T_{Storage}$ | Storage Temperature * | - 25 | | 85 | °C | |
| $T_{junction}$ | LED-Junction Temperature * | | | 120 | °C | |
| $Q_{j\text{-}PIN}$ | Thermal Resistance * | | 4 | | K/W | |
| $P_{tot}$ | Total Power Dissipation | 0 | | *** | W | The total Power Dissipation is depend on the Puls-/ Flashmode and time schedule; pls. attent the max. Junction temperature of 120°C@Tamb. |

* values only for information

## Connecting Diagram

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