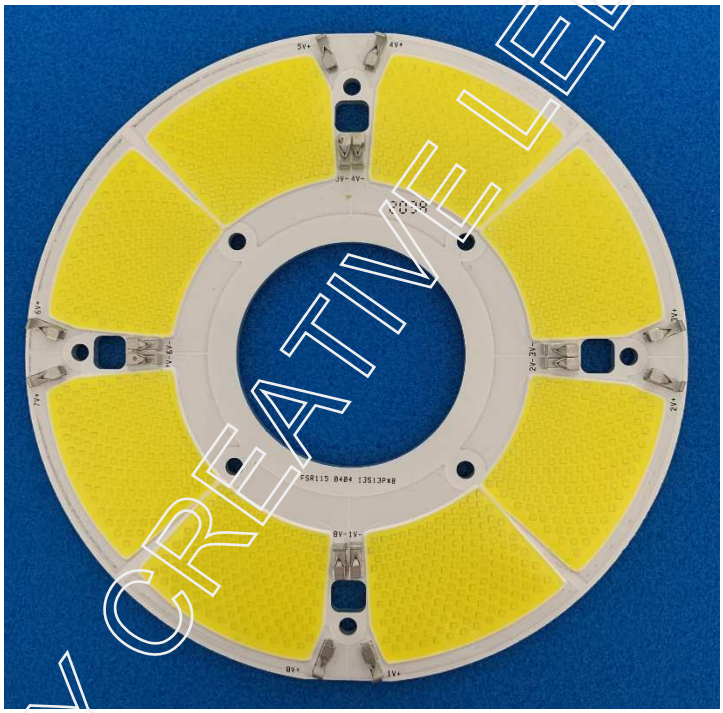
Preliminary Product Specification **CONFIDENTIAL PAPER**

LED-Flash Module **Cold-White** **CQV28910W150F-WC**

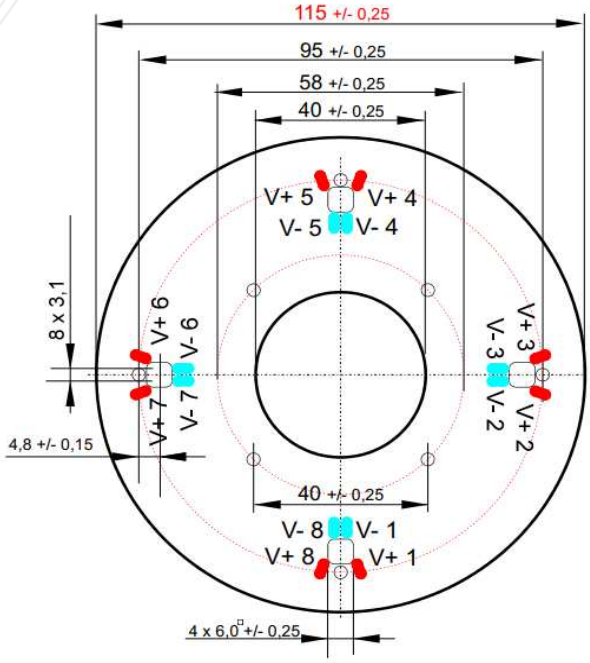
Feature :

* General propose WHITE-High-Power LED-Module
* Flash-lighting for strong brightness
* 8 Blocks a 13 LED Series * 13 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
* 1352 pieces LED on board with wire connector
* Modul-Diameter 115mm 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 13
Field 2	V+2 = Anode LED 1; V-2 = Cathode LED 13
Field 3	V+3 = Anode LED 1; V-3 = Cathode LED 13
Field 4	V+4 = Anode LED 1; V-4 = Cathode LED 13
Field 5	V+5 = Anode LED 1; V-5 = Cathode LED 13
Field 6	V+6 = Anode LED 1; V-6 = Cathode LED 13
Field 7	V+7 = Anode LED 1; V-7 = Cathode LED 13
Field 8	V+8 = Anode LED 1; V-8 = Cathode LED 13



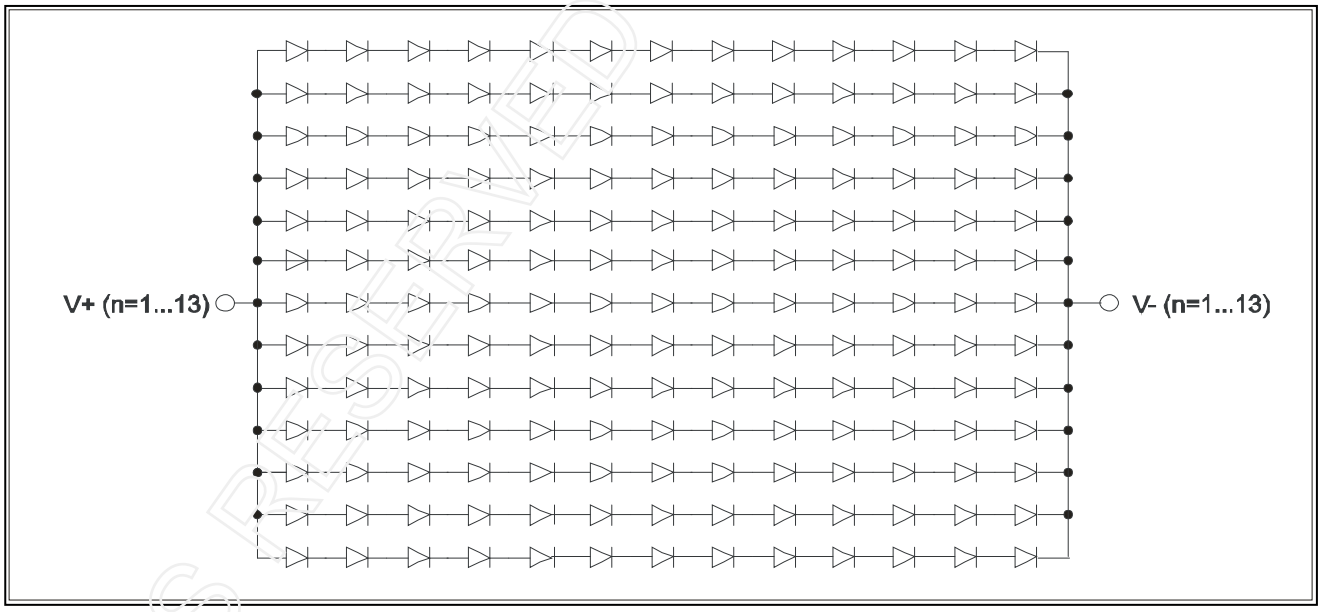
Attention : This product can generate a high level risks for human eyes and body acc. IEC 825 and EN62471!
Attention : This product **cannot be driven in high-voltage mode** and it is to attend the safety standards!

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	150			KLm	Value if each LED-Chip for If=350mA
I e	Luminous Radiance	160			KLm	Value if each LED-Chip for If=500mA
N lm	Lumen efficiency	110	140		lm/W	Value of each LED-Chip for If=350mA
CCT	Color Temperature	5000		6000	K	
CRI	Randering Index	70		80		
2Φ 0,5	Full Emission Angle		150		deg.	FE = 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-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 Diagramm



Pls. Contact us for more technical detail information !

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!