

VIOLETTA SINGLE DEVELOPMENT KIT

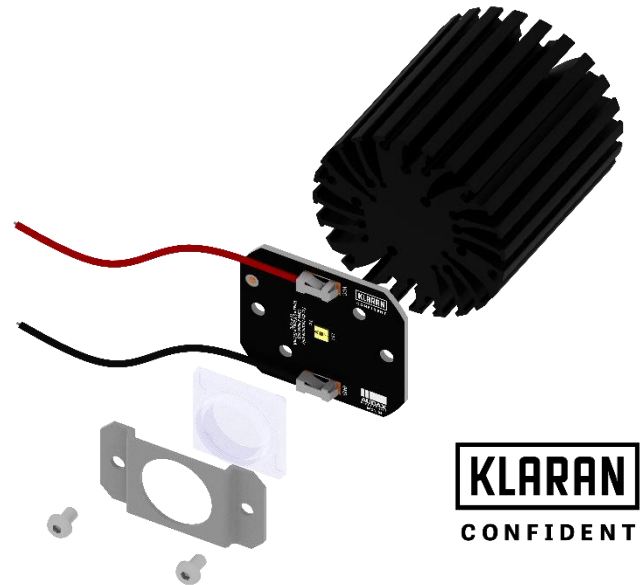
Issue Date	January, 2022
Issued by	Batistela, G.

Applications

- Medical sterilization
- Drinking water disinfection
- Infectious disease control
- Food processing sterilization
- Air sterilization

Characteristics

- UV Type - UVC
- Wavelength – 260-270nm
- Efficacy - up to 2.0%
- 05 years warranty



KLARAN
CONFIDENT

DRIVING CURRENTS

Parameter	Nominal	Max
Current	500 mA	600 mA

MECHANICAL PARAMETERS

Parameter	Typical Value	Units
Thermal Conductivity of Dielectric PCB Material	3	W/mK
Board Thickness	1.5	mm
Tc (temperature at Tc point)	25	°C

CRITICAL COMPONENT LIST

- UVC LED: KL265-50V-SM-WD
- Thermal Interface Material: FlexGRAF FG700

MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (temperature at Tc point)	40 °C	60 °C

PRODUCT PART NUMBER

80405100100

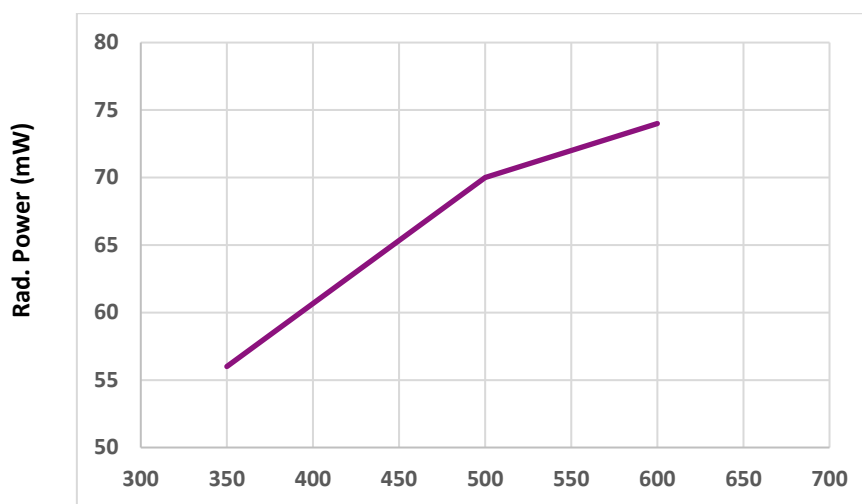
VIOLETTA DEVELOPMENT KIT

TECHNICAL INFORMATION

UV Type	Wavelength (nm)	#LEDs	Forward Current (mA)	Rad. Power (mW)	Forward Voltage (V)	Power (W)	Ts (°C)	EFF (%)
UVC	260-270nm	1	300	56.0	7.5	2.6	40	2.0
			500	70.0	8.0	4.0	40	1.8
			600	74.0	9.0	5.4	40	1.4

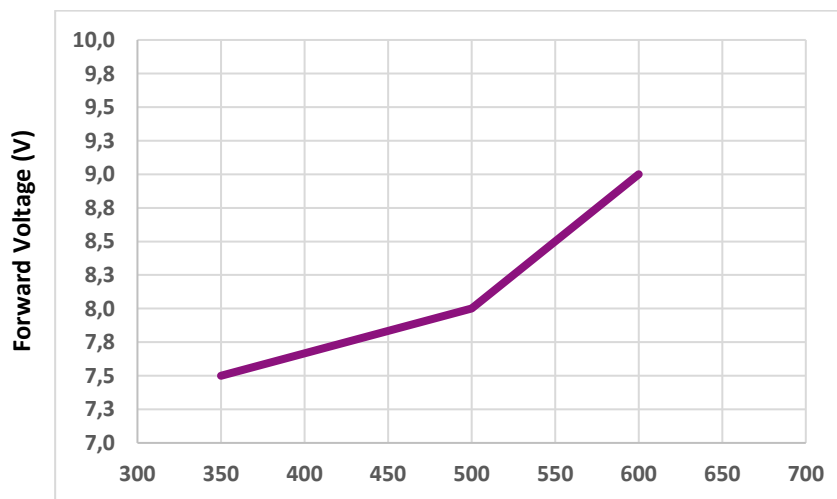
TECHNICAL GRAPHS

Rad. Power (mW) x Forward Current (mA) (Tj 50°C)



Forward Current (mA)

Forward Voltage (V) x Forward Current (mA) (Tj 50°C)



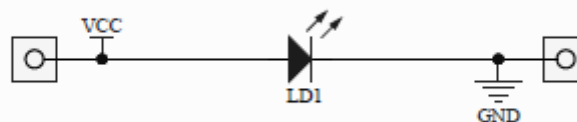
Forward Current (mA)

LED TYPE

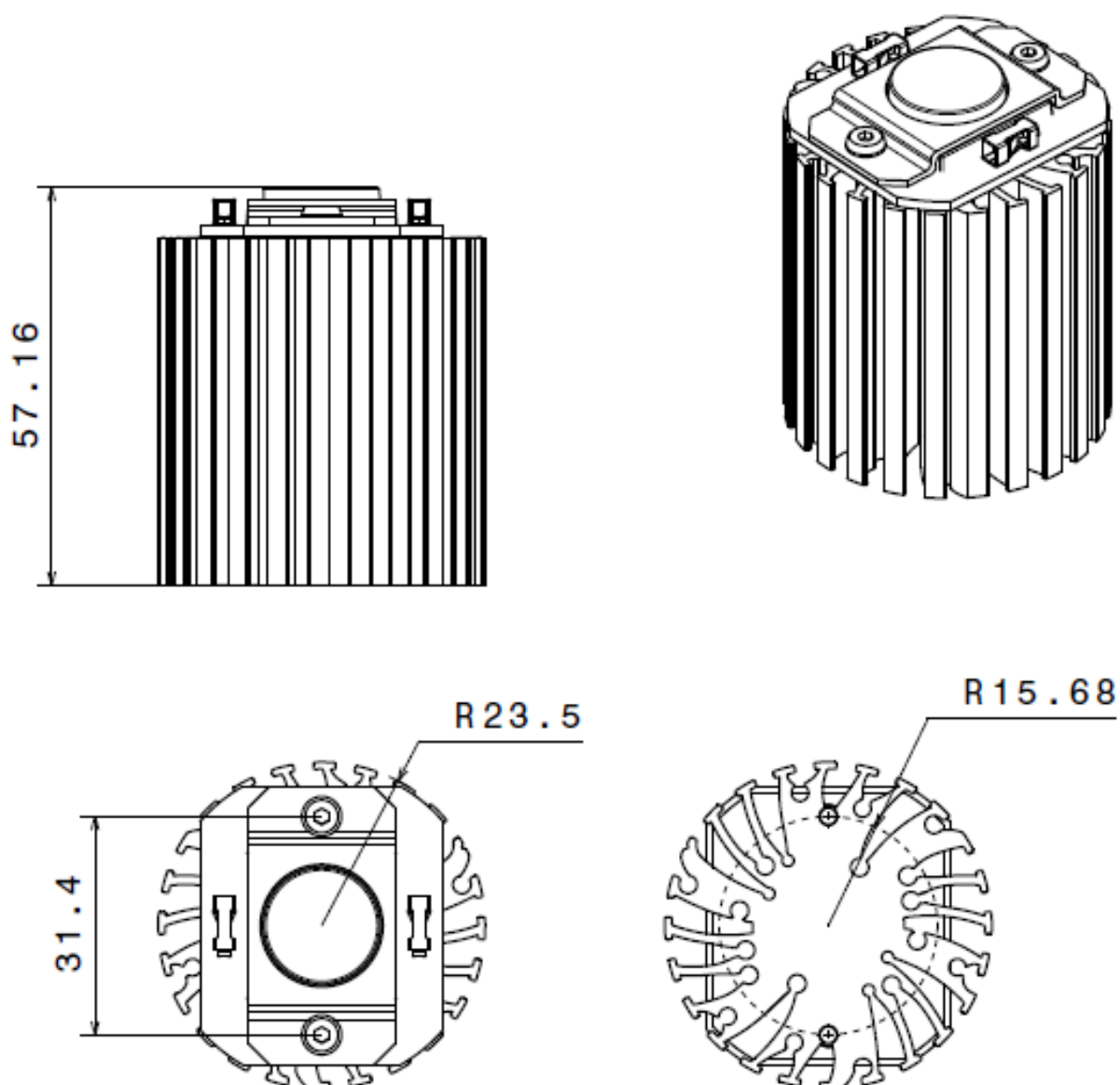
Manufacturer: Crystal IS, Klaran

LED Series: KL265

SCHEMATICS



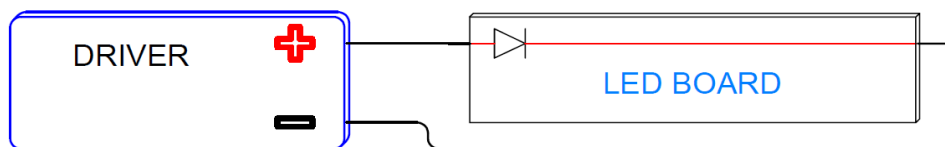
MECHANICAL DRAWING



Unit: mm

WIRING

Specification item	Value	Unit	Condition
Input wire cross- section	0.25...0.75 18...24	mm ² AWG	Solid wire
Input wire strip length	7.5...8.5	mm	Solid wire
Input wire cross-section	0.33...0.5 20...22	mm ² AWG	Stranded wire
Input wire strip length	7.5...8.5	mm	Stranded wire



COMPATIBLE OPTICS

Manufacturer	Part Number	Color	Beam
LEDiL	FN17822_VIOLETTA-S	Clear	~15°
LEDiL	FN17826_VIOLETTA-W	Clear	~60°



WARNING





COMPONENT LIST

- **LIGHT ENGINE UVC VIOLETTA SINGLE 1 LED 35X40MM 70MW**
- **LEDiL - FN17826_VIOLETTA-W**
- **LTF Technology Driver - DA6W1200C04LPD010**
- **Qualtek Cable - 221002-01**