

LIGHT ENGINE 2X6 RGBW

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| Issue Date | October, 2019 |
| Issued by | Ferreira, A. |

Applications

- Projectors
- Light cannons

Characteristics

- Module Efficacy – up to 81 lm/W
- L70 > 60.000 hours
- CRI > 80 (Typ.85)
- 03 SDCM
- CCT 6.500K
- 05 years warranty



DRIVE CURRENTS

| Parameter | Nominal (by channel) | Max (by channel) |
|-----------------------|----------------------|------------------|
| Light Engine 2X6 RGBW | 700 mA | 1000 mA |

MODULE TEMPERATURES

| Parameter | Nominal | Max |
|-----------------------------------|---------|-------|
| Tc (case temperature at Tc point) | 85 °C | 95 °C |

TECHNICAL INFORMATION

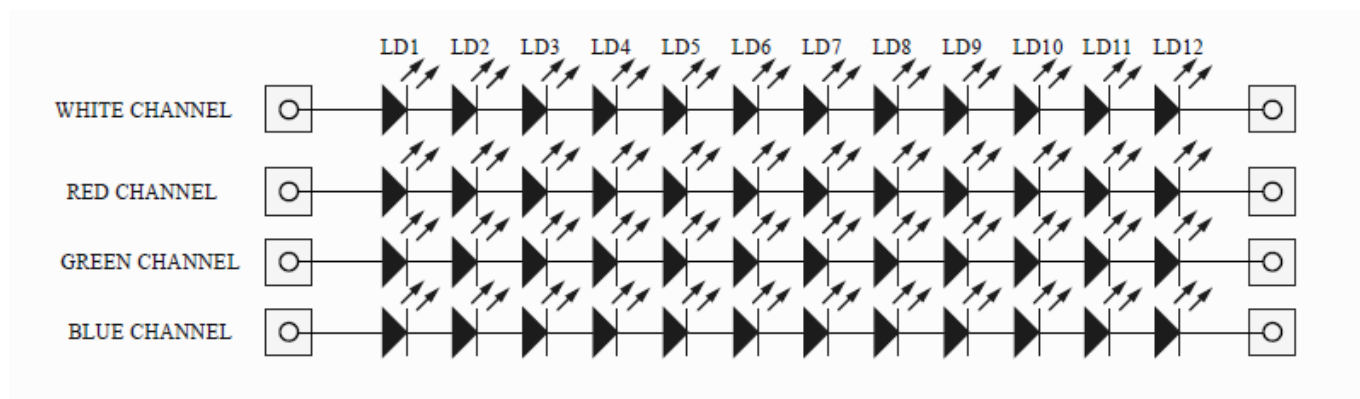
| | Color | # LEDs | CCT/ Wavelength | Luminous Flux (lm) | Forward Voltage (V) | Forward Current Per LED Die (mA) | Tj (°C) | Power PER LED Die (W) | Efficacy (lm/W) |
|-------------|-------|--------|--------------------|--------------------------|---------------------------|---|------------|--------------------------------|--------------------|
| 80178000100 | Red | 12 | 620nm | 329 | 27 | 350 | 85 | 9,5 | 35 |
| | | | 620nm | 625 | 30 | 700 | 85 | 21,0 | 30 |
| | Green | | 520nm | 944 | 39,6 | 350 | 85 | 13,9 | 68 |
| | | | 520nm | 1.463 | 43,2 | 700 | 85 | 30,2 | 48 |
| | Blue | | 450nm | 162 | 37,2 | 350 | 85 | 13,0 | 12 |
| | | | 450nm | 283 | 39,6 | 700 | 85 | 27,7 | 10 |
| | White | | 6.500 K | 1.050 | 37,2 | 350 | 85 | 13,0 | 81 |
| | | | 6.500 K | 1.837 | 39,6 | 700 | 85 | 27,7 | 66 |

LED TYPE

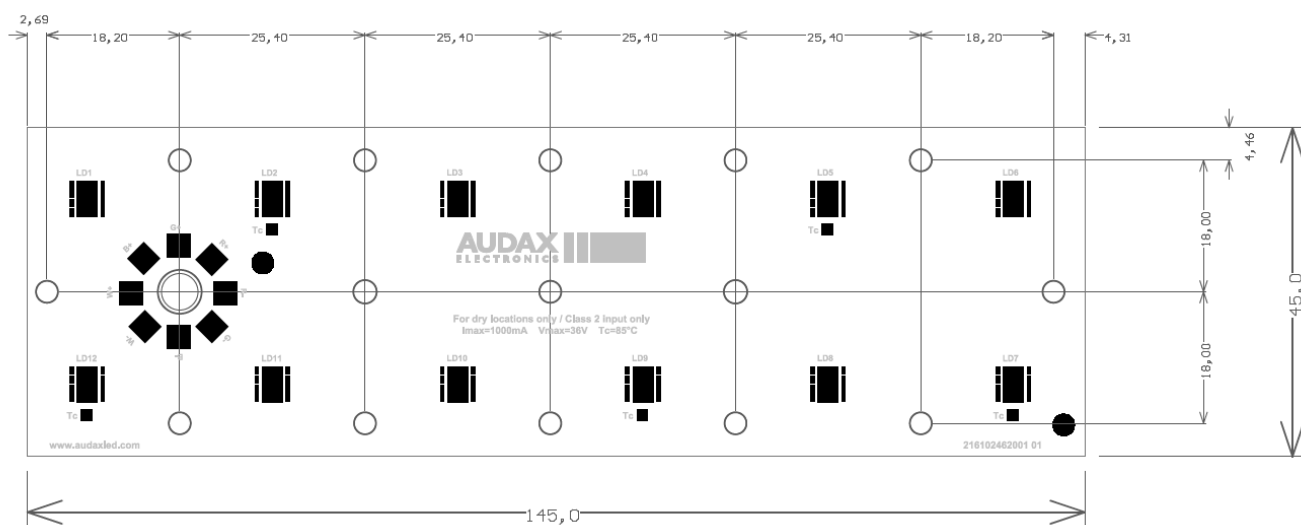
Manufacturer: CREE

LED Series: XLamp XM-L Color

SCHEMATICS



MECHANICAL DRAWING



WIRING

Unit: mm

| 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 |