

LIGHT ENGINE 4 LEDs RGBW 20.7x19.9mm

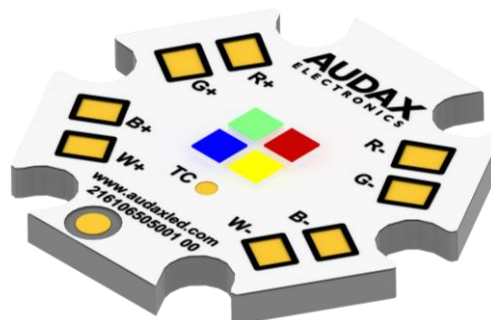
Issue Date	October, 2021
Issued by	Carmo, K.

Applications

- Projectors
- Light cannons
- Decorative spotlights

Characteristics

- Module Efficacy – up to 100 lm/W
- L70 > 60.000 hours
- 03 SDCM
- 05 years warranty



DRIVING CURRENTS

Description	Nominal	Max
LIGHT ENGINE 4 LEDS RGBW 20.7X19.9mm	350mA	500mA

MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (temperature at Tc point)	75 °C	95 °C

PRODUCT PART NUMBER

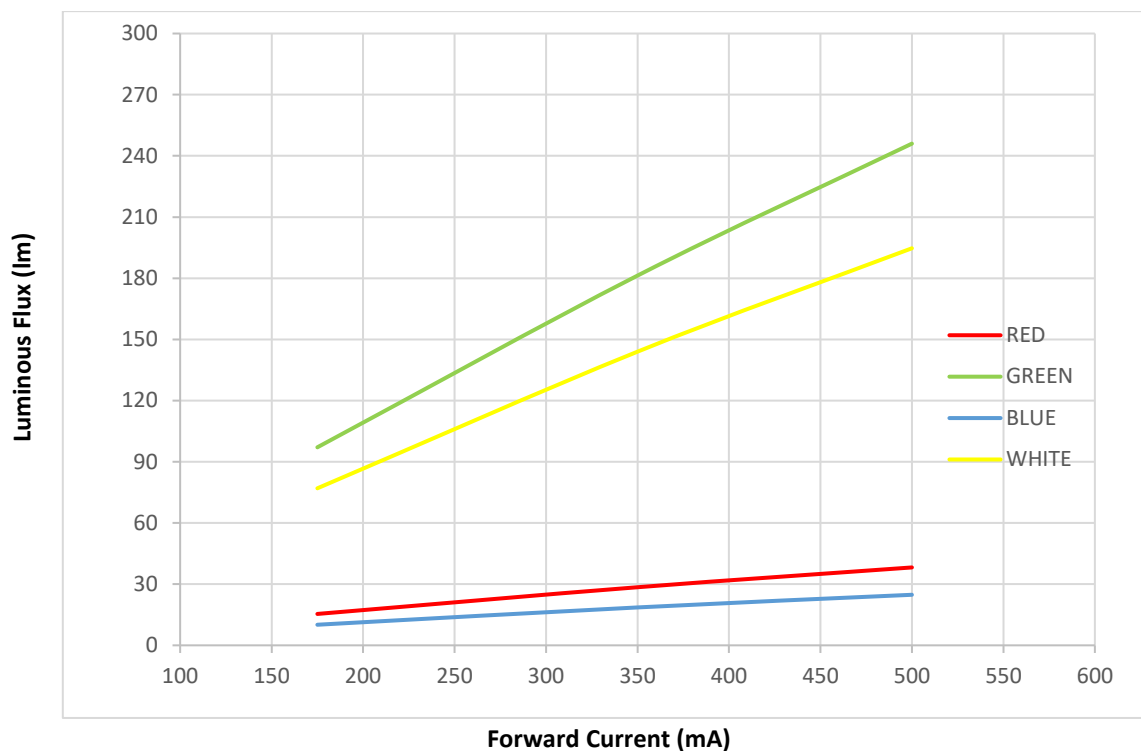
80379200100

RGBW

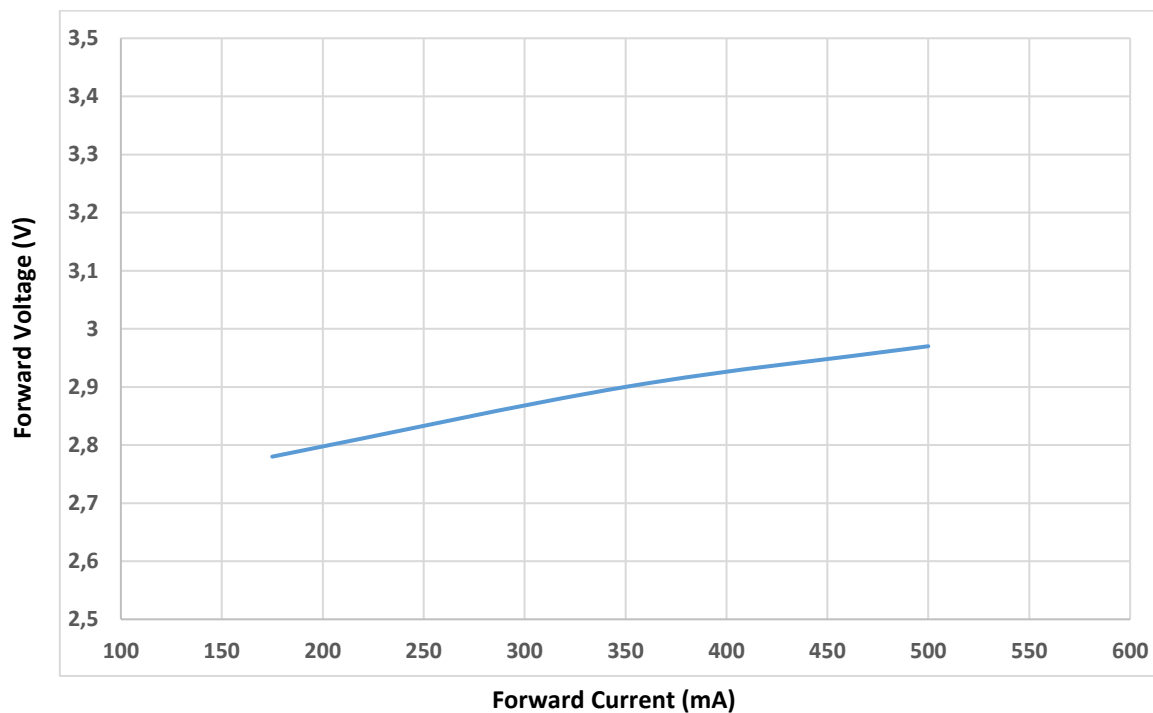
TECHNICAL INFORMATION

Color	# LEDs	CCT/ Wavelength	Luminous Flux (lm)	Forward Voltage (V)	Forward Current Per LED Die (mA)	Tc (°C)	Power per Channel (W)	Efficacy (lm/W)
Red	1	640nm	15	2.8	175	75	0.49	30.6
		640nm	29	2.9	350	75	1.02	28.4
		640nm	38	3.0	500	75	1.48	25.7
Green	1	520nm	97	2.8	175	75	0.49	198
		520nm	181	2.9	350	75	1.02	177.4
		520nm	246	3.0	500	75	1.48	166.2
Blue	1	450nm	10	2.8	175	75	0.49	20.4
		450nm	19	2.9	350	75	1.02	18.6
		450nm	25	3.0	500	75	1.49	16.7
White	1	2700K	77	2.8	175	75	0.49	157.1
		2700K	144	2.9	350	75	1.02	141.2
		2700K	195	3.0	500	75	1.49	130.9

Luminous Flux (lm) x Forward Current (mA) (TC 75°C)



Forward Voltage (V) x Forward Current (mA) (TC 75°C)

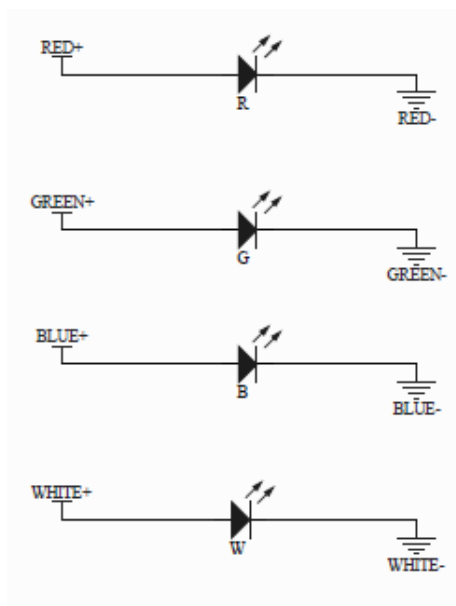


LED TYPE

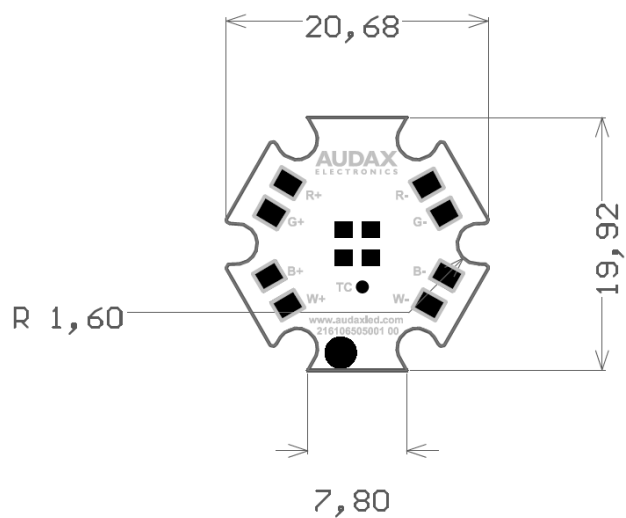
Manufacturer: NICHIA

LED Series: E17 Color Series

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