

LIGHT ENGINE COB 64 LEDs RGBW Ø53mm

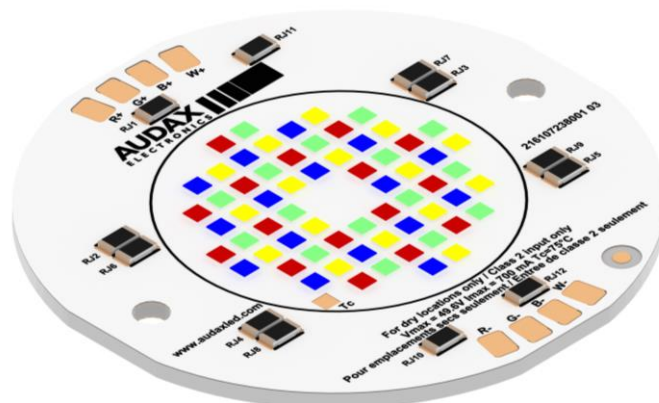
Issue Date	February, 2022
Issued by	Sérgio, P.

Applications

- Projectors
- Light cannons
- Decorative spotlights

Characteristics

- Module Efficacy – up to 201 lm/W
- L70 > 60.000 hours
- 03 SDCM
- 05 years warranty



DRIVING CURRENTS

Description	Nominal	Max
LIGHT ENGINE COB 64 LEDs RGBW 53mm	350mA	500mA

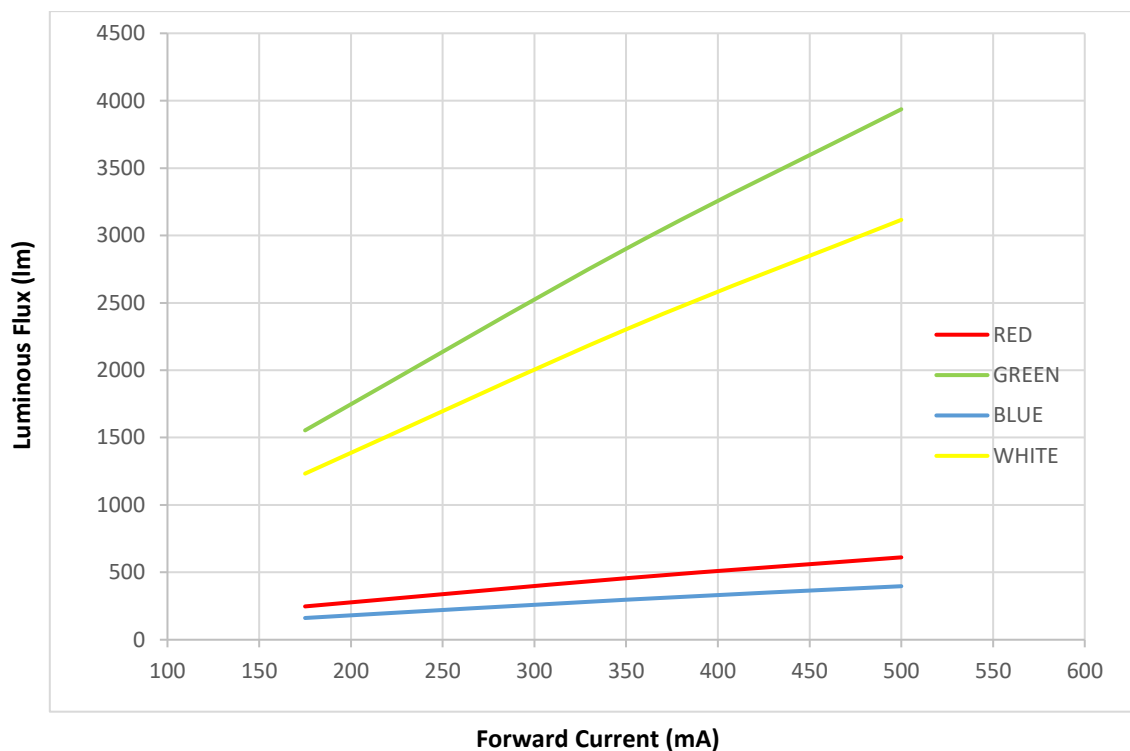
MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (temperature at Tc point)	75 °C	85 °C

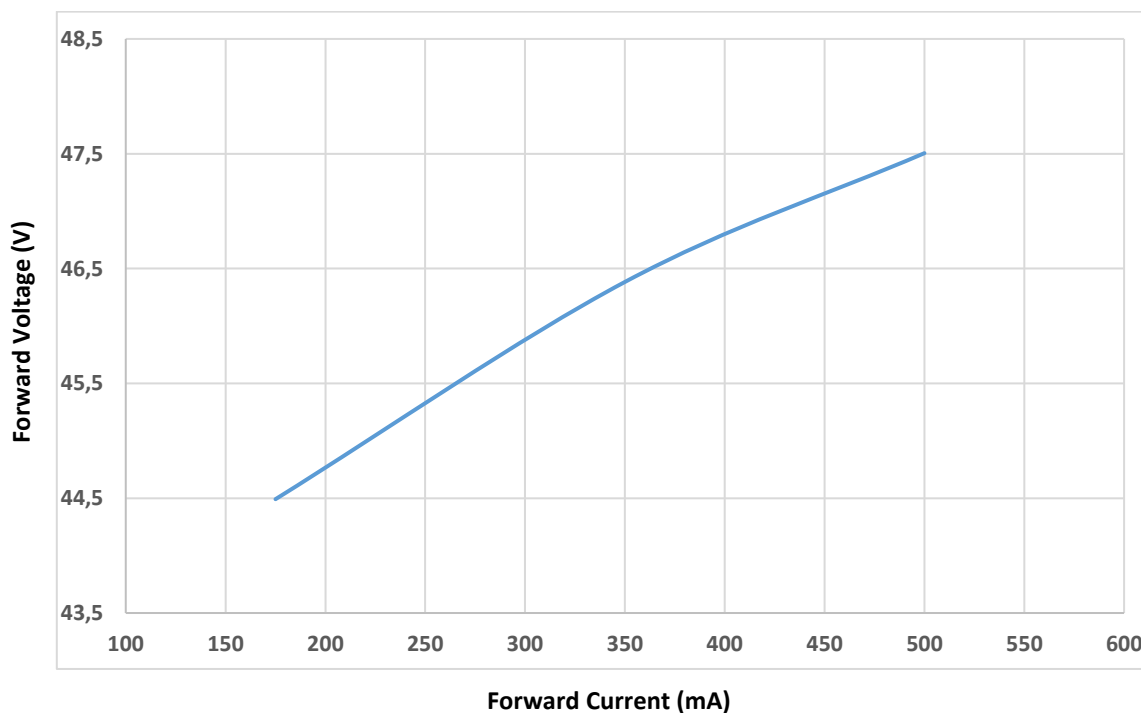
TECHNICAL INFORMATION

Product Part Number	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)
80408300100	Red	16	640nm	247.2	44.5	175	75	7.7	32.1
			640nm	456.4	46.3	350	75	16.2	28.2
			640nm	611.2	47.5	500	75	23.7	25.7
	Green	16	520nm	1553.6	44.5	175	75	7.7	201.7
			520nm	2901.1	46.3	350	75	16.2	179
			520nm	3936.5	47.3	500	75	23.6	166.8
	Blue	16	450nm	161.4	44.5	175	75	7.7	21
			450nm	296.9	46.3	350	75	16.2	18.3
			450nm	397.1	47.5	500	75	23.7	16.7
	White	16	2700K	1232.7	44.5	175	75	7.7	160
			2700K	2302.8	46.3	350	75	16.2	142.1
			2700K	3115.6	47.5	500	75	23.7	131.4

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



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

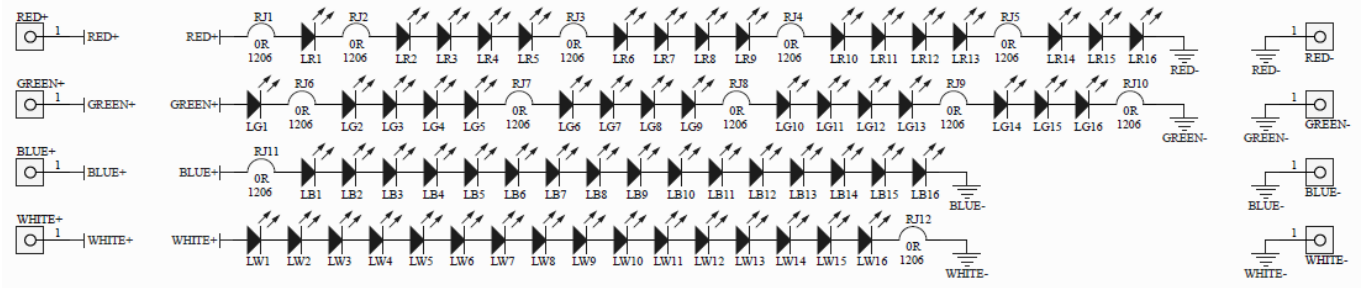


LED TYPE

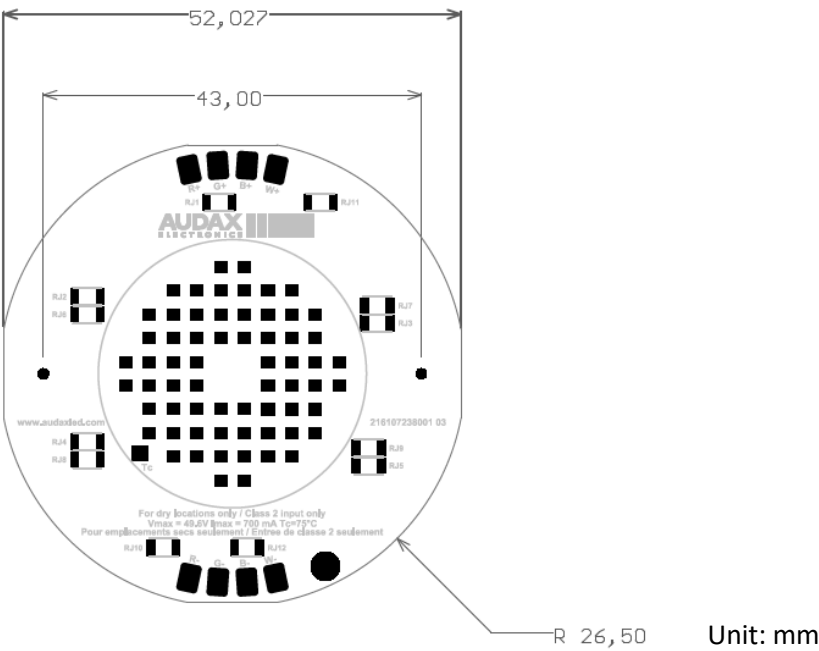
Manufacturer: NICHIA

LED Series: E17 Color Series

SCHEMATICS

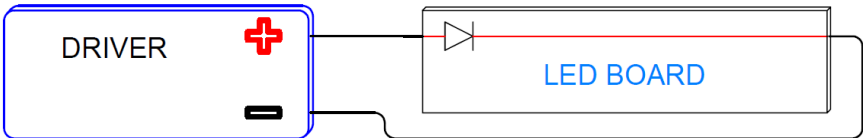


MECHANICAL DRAWING



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	Material	Beam
LEDiL	F13379_ANGELA-S	Metal	PC	~10°
LEDiL	F13380_ANGELA-M	Metal	PC	~30°
LEDiL	F13381_ANGELA-W	Metal	PC	~45°
LEDiL	F13662_ANGELA-S-B	Metal	PC	~10°
LEDiL	F13663_ANGELA-M-B	Metal	PC	~30°
LEDiL	F13664_ANGELA-W-B	Metal	PC	~45°
LEDiL	F13840_ANGELA-XW	White	HRPC	~70
LEDiL	F13841_ANGELA-XW-B	White	HRPC	~70
LEDiL	F13671_ANGE-RZ-LENS	Clear	PC	Asy-Angle ⁽¹⁾

(1) Photometric data for asymmetrical angles can be evaluated on www.ledil.com

COMPATIBLE HOLDER

Manufacturer	Part Number	Material	Color
LEDiL	C13584_CLAMP-VERO29	PBT	White

