

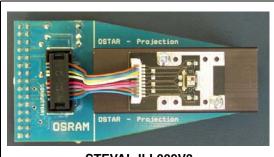
STEVAL-ILL009V3

OSRAM OSTAR® projection LED board

Data Brief

Features

- Outstanding brightness and luminance due to pure surface emission and low Rth prepared for additional optics
- Dominant wavelength: 617 nm amber (red)
- Dominant wavelength Color 2: 525 nm true green
- Dominant wavelength color 3: 464 nm blue
- Viewing angle at 50 % IV: 120 ° (lambertian emitter)
- Light emitting surface: (typ.) 2.1 x 2.1 mm²
- Technology: InGaAlP thinfilm amber (red)
- Technology color 2: ThinGaN true green
- Technology color 3: ThinGaN blue
- Luminance: 18*106 cd/m² amber (red)
- Luminance color 2: 14*106 cd/m² true green
- Luminance color 3: 3.5*106 cd/m² blue
- Efficacy color 2: 86.0 lm/W true green
- Efficacy color 3: 17.0 lm/W blue
- ESD-withstand voltage: up to 2 kV acc. to JESD22-A114-B



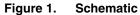
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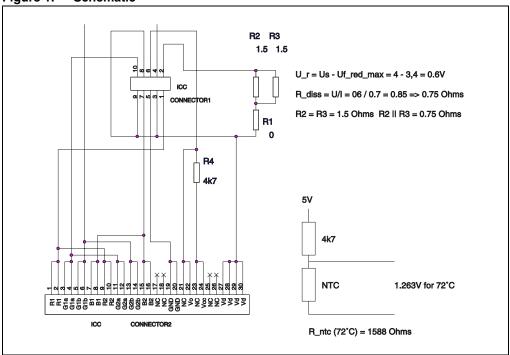
Description

This board should be connected through the 30-pin connector to the STEVAL-ILL009V1 control board to be able to show the light effect with the board. The OSTAR projection module, used as light source, has a maximum forward current of 700 mA. The NTC resistor is directly assembled on the OSTAR module. As the power of the module is above 10 W, the heatsink is used to keep the temperature in range. The biggest advantage of the OSTAR module is that red, green and blue LEDs are in the same package, very closely assembled and therefore the color effect is better than with three separate LEDs.

Board schematic STEVAL-ILL009V3

1 Board schematic





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STEVAL-ILL009V3 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Nov-2007	1	Initial release

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