

## 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 mm<sup>2</sup>
- Technology: InGaAlP thinfilm amber (red)
- Technology color 2: ThinGaN true green
- Technology color 3: ThinGaN blue
- Luminance: 18\*10<sup>6</sup> cd/m<sup>2</sup> amber (red)
- Luminance color 2: 14\*10<sup>6</sup> cd/m<sup>2</sup> true green
- Luminance color 3: 3.5\*10<sup>6</sup> cd/m<sup>2</sup> 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

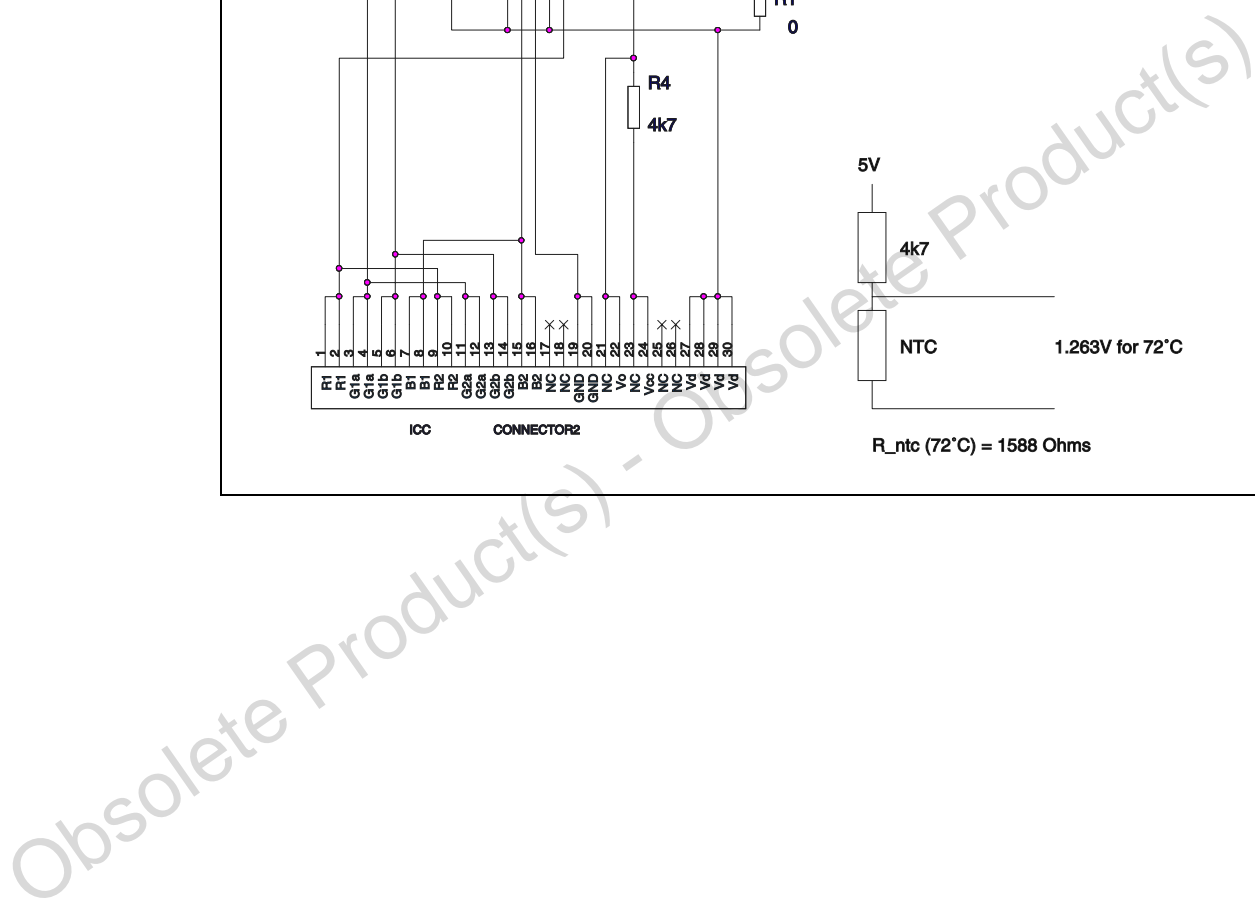


### Description

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.

## 1

### Figure 1. Schematic



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Nov-2007	1	Initial release

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