



**Product Group:** Vishay Semiconductors, Opto

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The information below is also available in PDF format which can be read in Adobe® Acrobat® by clicking on this link: [http://www.vishay.com/marcom/hn/npi/npi\\_tsmg2700.pdf](http://www.vishay.com/marcom/hn/npi/npi_tsmg2700.pdf)

To access the product datasheets on the Vishay Web site, go to:

<http://www.vishay.com/doc?81107>(TSMG2700)

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## TSMG2700 - IR Emitter with 830nm Wavelength

### The News:

The Vishay Sensor & IRDC Division has developed a new high power, high speed, 830nm wavelength emitter chip.

The new chip is now available in a PLCC-2 package.



### Introducing:

Part Number	Wave length/nm	Radiant Intensity @If=100mA /mW/sr	Angle of Half Intensity /deg.	Rise Time /ns	Package
<b>TSMG2700</b>	<b>830</b>	<b>10</b>	<b>+/- 60</b>	<b>20</b>	<b>PLCC-2</b>

### Features:

- 830 nm wavelength
- High radiant intensity
- High efficiency illumination for CMOS cameras
- High speed
- High reliability
- Low aging rate, see detail information for DH technology in Flyer: 'AGING OF INFRARED EMITTER COMPONENTS' (<http://www.vishay.com/doc?81117>)
- Pb-free component
- Component in accordance to RoHS 2002/95/EC and WEE 2002/96/EC

### The Key Applications:

- Illumination for CMOS cameras
- Night Shot function for Digital Still Cameras (DSC)
- Illumination for Night Vision systems
- Illumination for automotive Seat Occupant sensing

**The Perspective:**

830nm IR Emitters are optimally adapted to operate as an illumination source in CMOS camera applications. CMOS cameras have a much higher optical efficiency at 830nm illumination than at higher wavelengths such as 870nm.

**Key Benefits:**

- High efficiency illumination for CMOS cameras
- Peak wavelength: 830nm
- High radiant power

**Availability:**

- **Samples: Q3 / 2004,**
- **Production Quantities Q4 / 2004**

**Lead times: 12 Weeks**

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