

# DATASHEET

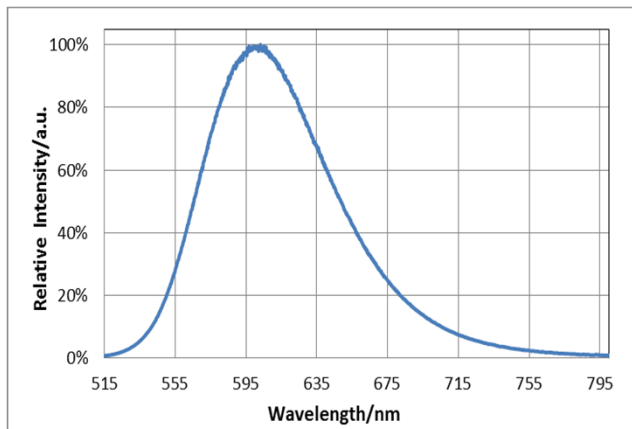
## ON5742-01

### Product Description and Application

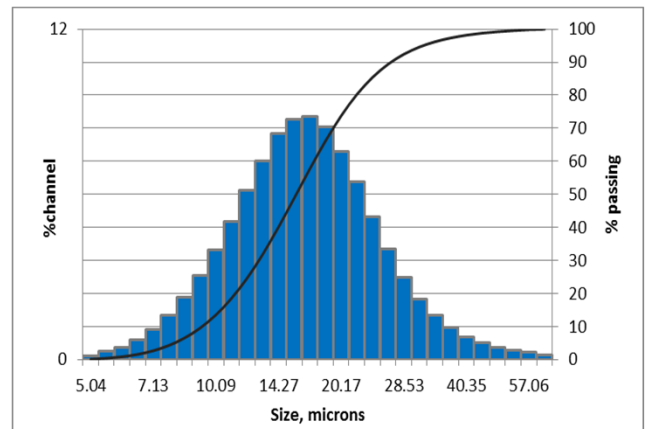
- ON5742 red nitride phosphor is a unique composition designed for high power LEDs with high junction temperature, such as 1-10W packages or high power arrays.
- ON5742 phosphor maintains the consistent brightness and color required for products with long lifetimes even under high luminous flux, such as lighting or larger area displays.
- While the performance is uniquely robust, ON5742 phosphor is perfectly compatible is blends with Intematix yellow and green phosphors to produce high CRI white light.

***Intematix phosphor compositions are protected by numerous US and world wide patents***

**Emission Spectrum**



**Particle Size Distribution**



### Material Specification:



<b>Materials</b>	<i>Nitride</i>
<b>Density</b>	<i>3.1 g/cm<sup>3</sup></i>
<b>Particle Size</b>	<i>D50V ~ 15.0 μm</i>
<b>CIE (1931)</b>	<i>x=0.576, y=0.423</i>
<b>Emission Peak</b>	<i>601 nm</i>
<b>Excitation Range</b>	<i>200nm to 610 nm</i>

*For more information about Intematix phosphors please contact your local sales representative.*

## INTEMATIX

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