

# New Product **Hot Sheet**

## OneLED – Infinite Colors

### Water Resistant, High Brightness RGB PLCC6 LED

Avago Technologies' high brightness tri-color Mini-PLCC6 SMT LED family combines high reliability characteristics with other features that make them ideally suited to exterior and interior full color displays, video screens, and decorative lighting applications.



#### Product Features:

- Small PLCC6 package 3.4 × 2.8 × 1.8 mm
- In-line RGB dies configuration
- Individual addressable pin-out for drive configuration flexibility
- High reliability LED package with silicone encapsulation
- **Water-Resistance (IPx6) per IEC 60529:2001**
- Compatible with reflow soldering process
- Wide viewing angle of 120°

#### Target Applications:

- Outdoor & indoor full color displays
- Video screens
- Advertising signs
- Stadium scoreboards
- Industrial applications
- Gaming machines
- Decorative lighting

## **YTB7** high performance, cost-efficient RGB PLCC6 LED

#### Additional Product Features:

- Narrow color binning – “flexi bin” option is available on request
- Diffused silicone encapsulation:
  - enhanced contrast ratio (reduction of reflection light from leadframe)
  - enhanced consistency of the radiation pattern

- **Operating Temperature: -40°C to 100°C**
- JEDEC MSL 3

Product Number	Color	Dominant Wavelength	Luminous Intensity I <sub>v</sub> (min.)	Luminous Intensity I <sub>v</sub> (typ.)	Test Current	DC Forward Current (max.)	Forward Voltage typ. V <sub>F</sub>	Packaging
<b>ASMT-YTB7-0AA02</b> Black-Surface RGB PLCC6	<b>Red</b>	617 - 627nm	560mcd	650mcd	20mA	50mA	2.1V	2000 pcs per reel
	<b>Green</b>	525 - 537nm <sup>(1)</sup>	1400mcd	1900mcd	20mA	25mA	3.1V	
	<b>Blue</b>	465 - 475nm <sup>(1)</sup>	285mcd	384mcd	20mA	25mA	3.1V	

(1) Narrow Color Bin selections for green and blue are available on request

## **YTB6** low-cost RGB PLCC6 LED

#### Additional Product Features:

- **Single color bin and single intensity bin**

- Operating Temperature: -40°C to 85°C
- JEDEC MSL 3

Product Number	Color	Dominant Wavelength	Luminous Intensity I <sub>v</sub> (min.)	Luminous Intensity I <sub>v</sub> (typ.)	Test Current	DC Forward Current (max.)	Forward Voltage typ. V <sub>F</sub>	Packaging
<b>ASMT-YTB6-02113</b> Black-Surface RGB PLCC6	<b>Red</b>	618 - 628nm	400mcd	455mcd	<b>15mA</b>	20mA	2.0V	2000 pcs per reel
	<b>Green</b>	528 - 533nm	540mcd	640mcd	<b>10mA</b>	20mA	3.0V	
	<b>Blue</b>	466 - 470nm	123mcd	140mcd	<b>10mA</b>	20mA	3.0V	

# OneLED Infinite Colors

Water Resistant, High Brightness  
RGB PLCC6 LED



## YTx2-series

high reliability, automotive-tested RGB PLCC6 LED

### Additional Product Features:

- Operating Temperature: -40°C to 110°C
- Narrow color binning – “flexi bin” option is available on request
- JEDEC MSL 2a
- Available in White-Surface, Black-Surface and full Black-Body for better contrast (e.g. indoor full color displays)

### Additional Applications:

- Interior automotive

Product Number	Color	Dominant Wavelength	Luminous Intensity I <sub>v</sub> (min.)	Luminous Intensity I <sub>v</sub> (typ.)	Test Current	DC Forward Current (max.)	Forward Voltage typ. V <sub>F</sub>	Packaging
<b>ASMT-YTB2-0BB02</b> Black-Surface RGB PLCC6	Red	618 - 628nm	560mcd	745mcd	20mA	50mA	2.1V	1000 pcs per reel
	Green	525 - 537nm <sup>(1)</sup>	1125mcd	1600mcd	20mA	30mA	3.2V	
	Blue	465 - 477nm <sup>(1)</sup>	285mcd	380mcd	20mA	30mA	3.2V	
<b>ASMT-YTC2-0AA02</b> Black-Body RGB PLCC6	Red	618 - 628nm	355mcd	450mcd	20mA	50mA	2.1V	1000 pcs per reel
	Green	525 - 537nm <sup>(1)</sup>	450mcd	560mcd	20mA	30mA	3.2V	
	Blue	465 - 477nm <sup>(1)</sup>	140mcd	180mcd	20mA	30mA	3.2V	
<b>ASMT-YTD2-0BB02</b> White-Surface RGB PLCC6	Red	618 - 628nm	560mcd	745mcd	20mA	50mA	2.1V	1000 pcs per reel
	Green	525 - 537nm <sup>(1)</sup>	1125mcd	1600mcd	20mA	30mA	3.2V	
	Blue	465 - 477nm <sup>(1)</sup>	285mcd	380mcd	20mA	30mA	3.2V	

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