

RGB(W) SMD LED Product Brief

This product brief provides an overview of the RGB(W) SMD LED offering including product features and applications.

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- **Optoelectronic** core focus
- **Comprehensive** package selection offering robust reliability and longevity
- **Application** and engineering support available, including optical simulation data
- **Custom** solutions and special binning

RGB LED OVERVIEW



Product Features

- Package dimensions from 1.0 x 1.0 x 0.65 (mm) to 3.5 x 2.8 x 1.9 (mm), provide a multitude of high density design options.
- Range of luminous intensity and luminous flux to optimize performance while achieving high economic goals
- Customized binning to meet your project needs.

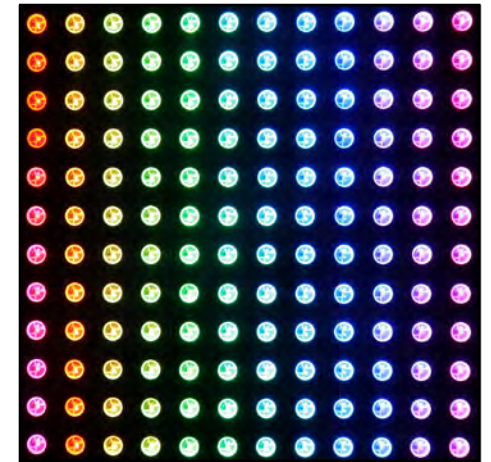
Applications

- IoT / Smart Devices
- Ambient Color Effects
- Decorative Lighting
- Signage
- Keyboard and Display Backlighting
- Wearables
- Aftermarket Automotive Lighting
- Network, Communication, and Server Equipment

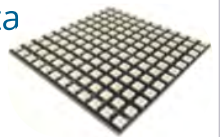
Featured Product

INCM88001

12x12 Digital LED Matrix



- Single line data transmission
- Plug and play
- Stackable up to 4 Modules per driver



Applications

- Indoor Displays
- Information Signage
- DIY Devices

RGB LED-TOP VIEW

PRODUCT OVERVIEW

	Product Name	Package Description	Dimensions (mm)	Iv (mcd) R/G/B (Typ.)
	IN-P32TATRGB	3528 PLCC4 Pinout A	3.5 x 2.8 x 1.9	280/900/300 @20mA
	IN-P32TBTRGB	3528 PLCC4 Pinout B	3.5 x 2.8 x 1.9	285/900/300 @20mA
	IN-P55TATRGB	5050 PLCC6	5.5 x 5.0 x 1.5	900/1800/600 @20mA
	IN-S128TATRGB	1210 Pinout A	3.2 x 2.7 x 1.1	170/450/160 @20mA
	IN-S128TBTR5GB	1210 Pinout B	3.2 x 2.7 x 1.1	170/230/160 @20/5/20 mA
	IN-S66TATRGB	0606 Pinout A	1.6 x 1.5 x 0.55	180/450/115 @20mA
	IN-S66TBTRGB	0606 Pinout B	1.6 x 1.5 x 0.55	100/400/110 @20mA
	IN-S85TATRGB	0805	3.5 x 2.8 x 1.9	200/520/140 @20mA
	IN-B101FCH	1010	1.0 x 1.0 x 0.65	58/85/17 @10mA



Reverse Mountable

IN-S124TCR2R2G2B

	Package Description	Dimensions (mm)	Iv (mcd) R/G/B (Typ.)
	1204	3.2 x 1.2 x 0.5	7/71/18 @2mA

*Also available in 20mA

RGB LED-SIDE VIEW

Product Features

- High Brightness
- AllnGaP/InGaN Technology
- Customizable:
 - ▶ Brightness
 - ▶ Color
 - ▶ Lens



PRODUCT OVERVIEW

IN-S126TASRGB* (1.0 1206)

	Package Description	Dimensions (mm)	I _v (mcd) R/G/B (Typ.)
	1206	3.2 x 1.5 x 1.0	250/1100/200 @20mA

*Available with a clear or diffused lens

IN-P41TASRGB

	Package Description	Dimensions (mm)	I _v (mcd) R/G/B (Typ.)
	0.88T	4.5 x 1.25 x 0.88	250/1100/200 @20mA

RGBW LED-TOP VIEW

Product Features

- Available in low, mid, or high power
- Analog / Digital options
- Customizable:
 - ▶ Brightness
 - ▶ Color
 - ▶ CCT
 - ▶ CRI



PRODUCT OVERVIEW

High Power

	Product Name	Package Description	Dimensions (mm)	Iv (lm) White (Typ.)
	IN-505FCHWV	5050	5.0 x 5.0 x 2.75	45/100/18/100 @350mA

Mid Power

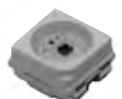
	Product Name	Package Description	Dimensions (mm)	Iv (mcd) R/G/B (Typ.)	Iv (lm) White (Typ.)
	IN-P55QDTRGBW	5050 PLCC8	5.0x5.0x1.65	500/220/450 @20(mA)	10 @30mA

Low Power

	Product Name	Package Description	Dimensions (mm)	Iv (lm) White (Typ.)
	IN-P55QSTGRGBW	5050 PLCC8	5.0x5.0x1.10	11/25/5/40 @100mA

DIGITAL / ADDRESSABLE RGB LED-TOP VIEW

PRODUCT OVERVIEW

	Product Name	Package Description	Dimensions (mm)	I _v (mcd) R/G/B (Typ.)
	IN-PC55TBT	5050 RGB Clock IC	5.0 x 5.0 x 1.6	600/1250/400 @20mA
	IN-PI22TAT	2427 RGB IC - 4-pin	2.4 x 2.7 x 1.1	150/600/75 @5mA
	IN-PI33TBT	3.5 x 3.5 x 1.95 RGB IC - 4 PIN	3.5 x 3.5 x 1.95	400/1250/300 @12mA
	IN-PI55TAT	5050 RGB IC - 4-pin	5.0 x 5.0 x 1.6	600/1250/300 @12mA
	IN-PI55TBT	5050 RGB IC - 6-pin	5.0 x 5.0 x 1.6	600/1250/300 @20mA
	IN-PI55QAT	5050 RGBW IC - 4-pin	5.0 x 5.0 x 1.6	300/850/1850 @12mA
	IN-PI554	5050 RGB IC - 4-pin	5.0 x 5.0 x 1.6	600/1250/300 @12mA
	IN-PI556	5050 RGB IC - 6-pin	5.0 x 5.0 x 1.6	600/1250/400 @12mA

Product Features

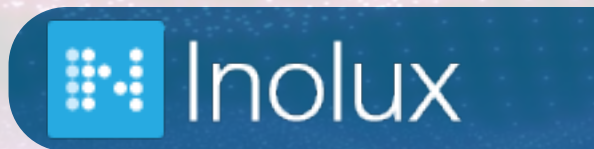
- White Balance Binning
- Available in RGB / RGBW options
- Single trace or 2 wire SPI Protocols
- Customizable:
 - ▶ Brightness
 - ▶ Color
 - ▶ Lens



Side View

IN-PI42TAS

	Package Description	Dimensions (mm)	I _v (mcd) R/G/B (Typ.)
	4020 RGB IC 4-pin	4.0 x 2.0 x 1.5	400/1250/250 @12mA



Contact Us



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For more information on the RGB(W) SMD LED line including features, applications, and specifications, or to view additional parts in this product family, visit:

Inolux-Corp.Com/ProductsRGB