



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Dialight

## LINKLED K2 LED LIGHT ENGINES



### FEATURES / BENEFITS

- ▲ 70% lumen maintenance at 50,000 hours at 55°C PCB temperature
- ▲ Modular “Plug & Play” system for flexible design in curved or unusually shaped areas.
- ▲ Specify with additional amber or white LEDs (-RGBA and -RGBW) for warmer colour temperatures
- ▲ Aluminum based PCB for easier heat dissipation and more efficient operation
- ▲ Available Color Kinetics pass through license, consult factory for details

### OPERATING CONDITIONS

- ▲ Recommended PCB temp=55°C  
Maximum PCB temp = 80°C
- ▲ LED Life @ 55°C PCB temp = 50,000 hours
- ▲ For maximum performance, all “LinkLED-K2” LED Light Engines should be adhered to an appropriate heat sink using adhesive backing (provided)
- ▲ Recommended drivers = Colordriver 36 or XP
- ▲ Thermal conductivity = 1.3W/m-k
- ▲ Breakdown voltage = 2kV

### APPLICATIONS

- ▲ Architectural
- ▲ Cove and cornice lighting
- ▲ Decorative
- ▲ Accent
- ▲ Color Washing
- ▲ Night clubs, restaurants, and bars
- ▲ Any application requiring dynamic color changing, efficiency, long life, and flexibility in size and shape of light source.

### MATERIALS/FINISH

- ▲ LUXEON® K2 LEDs
- ▲ 1.6mm Aluminum clad PCB substrate
- ▲ White solder resist finish
- ▲ Optic LinkLED K2s come with 3 degree spot optic (OPK2-1-003)

### ACCESSORIES (SOLD SEPARATELY)

- ▲ **OPAA-1-DF** 6° Diffused Optics Sub-lens
- ▲ **OPAA-1-WSL** 12° Wide Optics Sub-lens
- ▲ **OPAA-1-OSL** 4° x 27° Oval Optics Sub-lens  
*All angles are half divergence*
- ▲ **CDU-L-335-DMX** 3-channel colour driver  
*RGB versions only*

### ORDERING INFORMATION

#### K2 LinkLEDs:

<b>LK2-RGB</b>	RGB
<b>LK2-RGBA</b>	RGBA
<b>LK2-RGBW</b>	RGBW
<b>LKK2-OP-RGB</b>	RGB w/ optic
<b>LKK2-OP-RGBA</b>	RGBA w/ optic
<b>LKK2-OP-RGBW</b>	RGBW w/ optic

#### Quick Connect Cables:

<b>CT8-125-100</b>	= 8 way link lead 100mm
<b>CT8-125-200</b>	= 8 way link lead 200mm
<b>CT8-CK</b>	= 8 way end connector
<b>CT8-125-3E</b>	= 8 way link lead to wire ends (3m)

Dialight reserves the right to make changes at any time in order to supply the best product possible.

#### Dialight Europe Ltd

Exning Road • Newmarket • Suffolk, United Kingdom, CB8 0AX  
Tel :+44 (0)1638 666541 • www.dialight.com

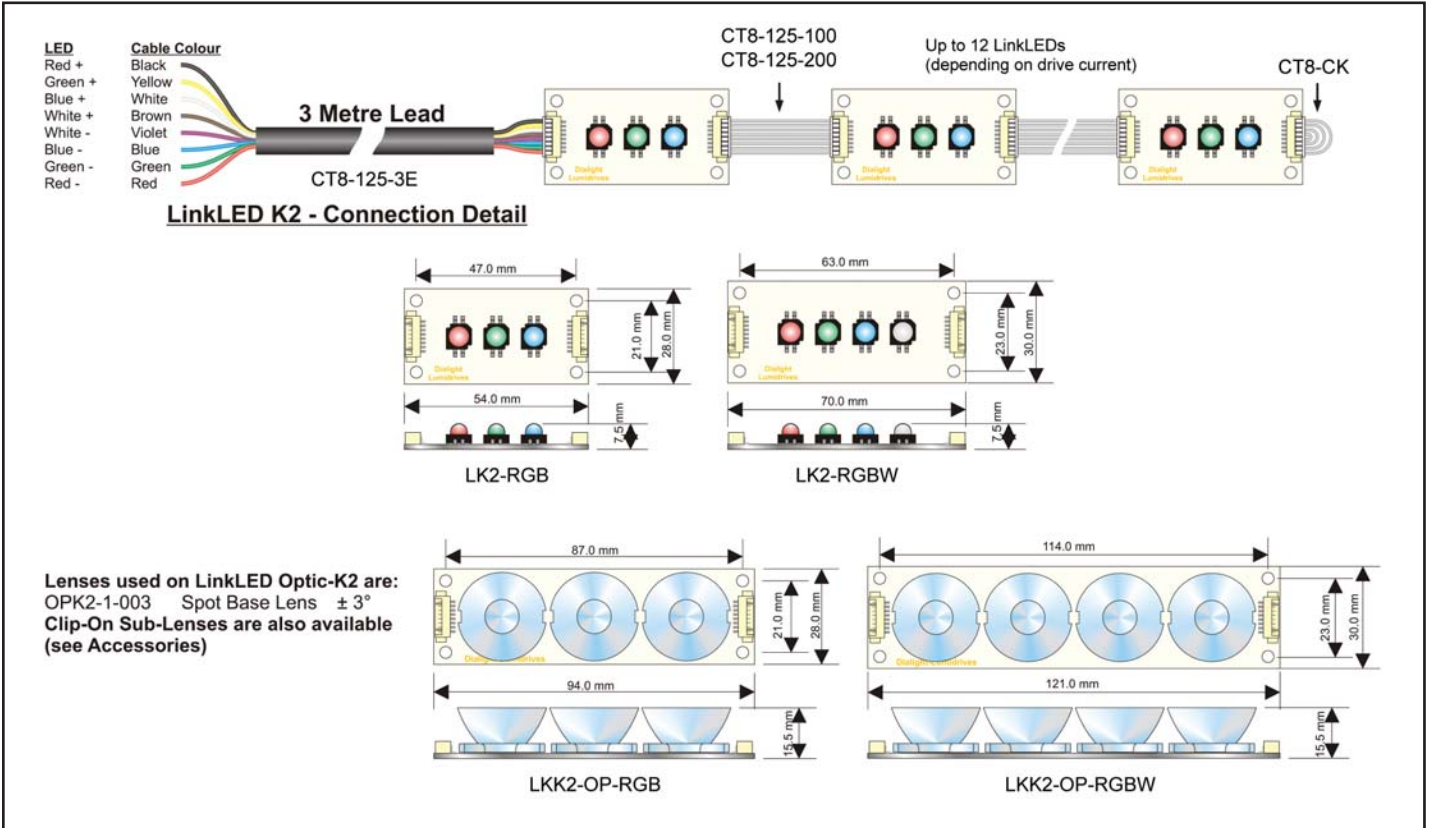
#### Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA  
Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com

MDEXLKLDK2\_B



# WIRING INFORMATION



# MECHANICAL DIMENSIONS

PRODUCT	LENGTH	WIDTH	HEIGHT	MOUNTING HOLE SPACING
LK2-RGB	54.0mm (2.13")	28.0mm (1.10")	7.5mm (0.30")	47 x 21mm (1.85" x 0.83")
LK2-RGBA / LK2RGBW	70.0mm (2.76")	30.0mm (1.18")	7.5mm (0.30)	63 x 23mm (2.48" x 0.91")
LKK2-OP-RGB	94.0mm (3.70")	28.0mm (1.10")	15.5mm (0.61")	87 x 21mm (3.43" x 0.83")
LKK2-OP-RGBA / LKK2-OP-RGBW	121.0mm (4.76")	30.0mm (1.18")	15.5mm (0.61")	114 x 21mm (4.49" x 0.91")

# TYPICAL LED PHOTOMETRIC DATA

LED	Color	Forward Voltage (Typ)	Max. Current (mA)	Dom Wavelength / CCT			Luminous Flux or Radiometric Power (lm or mW)		
				Min	Typ	Max	350mA	700mA	1000mA
	Red	2.96	700	620nm	627nm	645nm	36lm	60lm	-
	Green	3.42	1000	520nm	530nm	550nm	36lm	62lm	80lm
	Royal Blue	3.42	1000	440nm	455nm	460nm	176mW	294mW	380mW
	White	3.42	1000	4500°K	6500°K	10000°K	36lm	62lm	80lm
	Amber	2.96	700	584nm	590nm	597nm	36lm	60lm	-

Results are LED manufacturer's test data @ 25°C JTC. Light output at 55°C PCB temperature will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For maximum performance use appropriate heat sinking.

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