



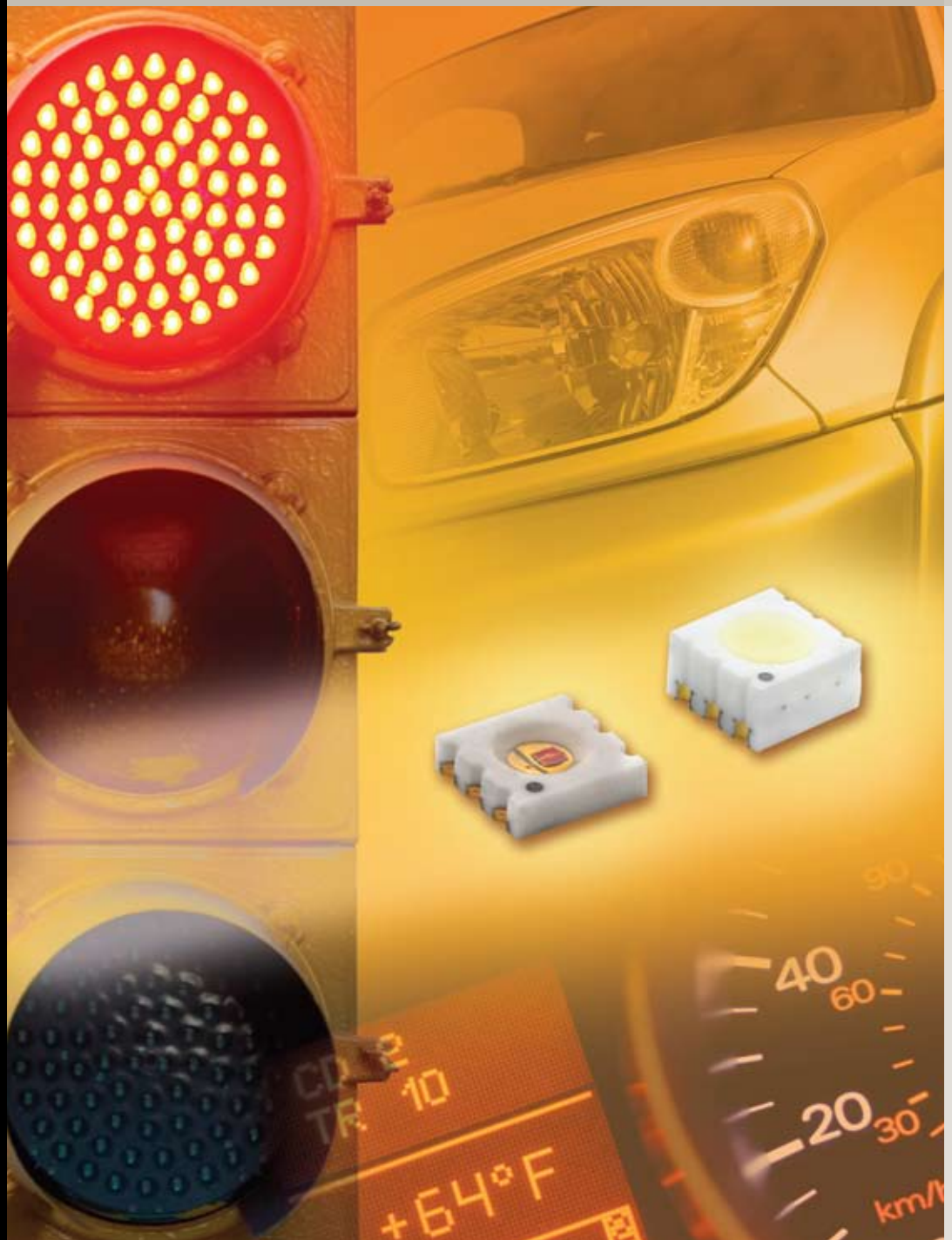
VISHAY INTERTECHNOLOGY, INC.

OPTOELECTRONICS

## SURFACE-MOUNT LEDs

CLCC-6 / CLCC-6 Flat

PRODUCT OVERVIEW





# SURFACE-MOUNT LEDs

## CLCC-6 / CLCC-6 Flat

### Introduction

Vishay's high-power SMD LEDs in the CLCC-6 and CLCC-6 flat ceramic package maintain the highest-possible heat dissipation while providing the highest performance and reliability to meet the demands of power-to-optical efficiency ratios. LEDs in the CLCC-6 and CLCC-6 flat packages are the devices of choice for applications where stability, performance, and reliability cannot be compromised.

High-efficiency heat dissipation (18 W/m-K) makes the CLCC-6 and CLCC-6 flat essential for clustered or matrix designs where the cumulative heat of the LEDs becomes an important design consideration.

### Applications

#### Automotive, Railway, and Aviation (Signal Application)

- Interior and exterior automotive lighting (brake lights, turn lights, backlighting, side markers)
- Indicator lighting
- Signal and symbol luminaires
- Marker lights
- Backlighting (LCDs, switches, keys, illuminated advertising)
- Traffic lights
- Side markers

#### Consumer Electronics, Mobile, and General Indication

- Household appliances
- Toys/games
- VCR/DVD/stereo/audio/video devices
- Switches
- Instrumentation
- Security equipment
- Digital cameras
- Camera flash light
- Laptops

#### Illumination and Sensing with LEDs

- Signage (channel letters)
- Emergency lighting (exit signs)
- Machine vision
- Retail displays
- Flashlights
- Medical instrumentation
- Color and money sensors
- Fiber optic communication
- Encoders
- Bar code readers
- Optical switches

#### LED Sign Applications

- Transportation—passenger information
- Traffic/VMS



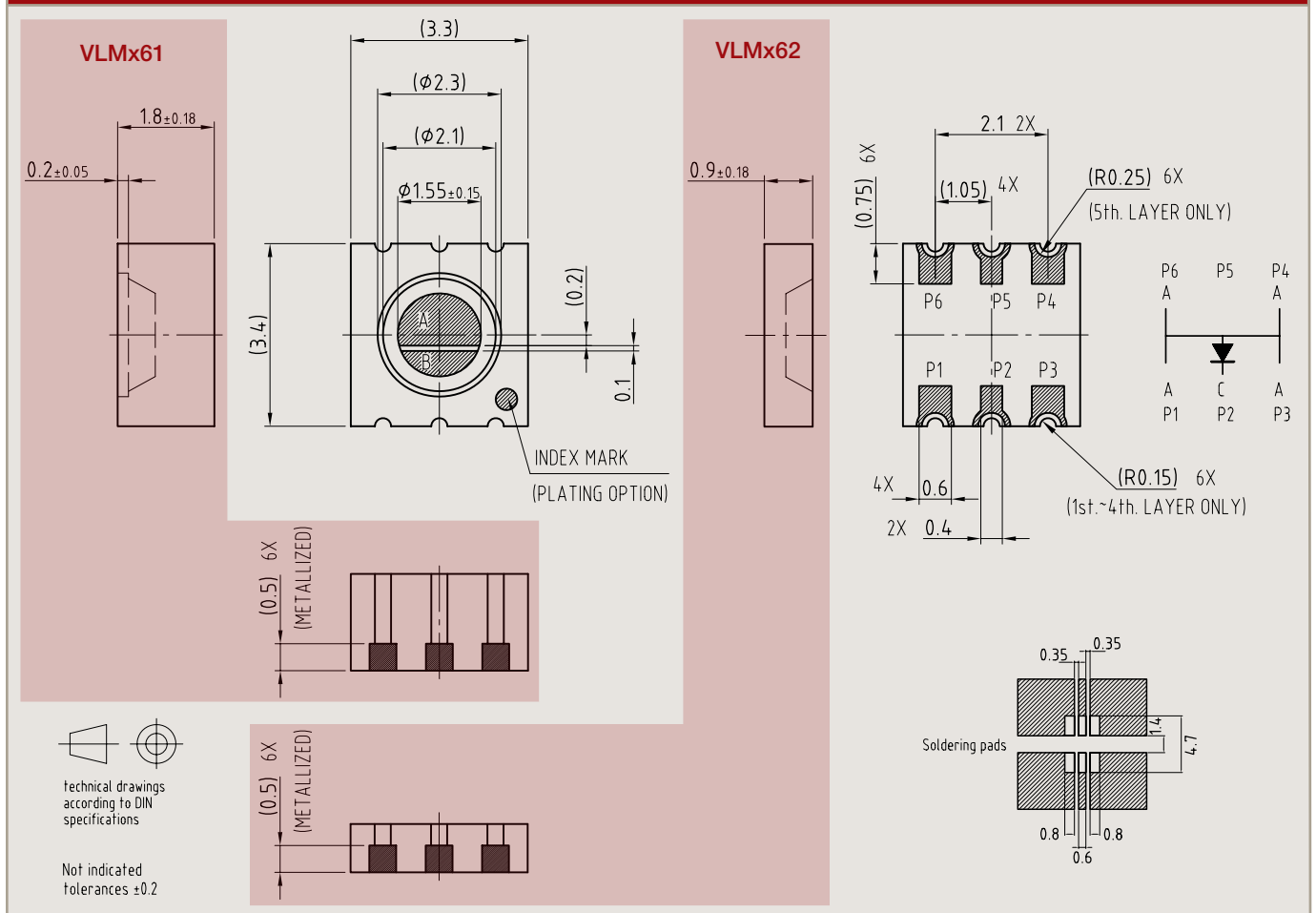
## PARTS TABLE

Product Series	Part Number	Color	Dominant Wavelength (nm)	Luminous Intensity, $I_v$ (mcd)	@ $I_F$ (mA)
CLCC-6	VLMK61CADA	red	612 - 624	2800 - 5600	140
	VLMY61CADA	yellow	583 - 594	2800 - 5600	140
	VLMW61CADB	white	5600K)*	2800 - 7100	140
	VLMW61CBEA	white	5600K)*	3550 - 9000	140
	VLMW611BADA	warm white	3500K)*	1800 - 5600	140
	VLMW611CADB	warm white	3500K)*	2800 - 7100	140
GLCC-6 flat	VLMK62CADA	red	612 - 624	2800 - 5600	140
	VLMY62CADA	yellow	583 - 594	2800 - 5600	140
	VLMW62CADB	white	5600K)*	2800 - 7100	140
	VLMW62CBEA	white	5600K)*	3550 - 9000	140
	VLMW621BADA	warm white	3500K)*	1800 - 5600	140
	VLMW621CADB	warm white	3500K)*	2800 - 7100	140

)\* = Color Temperature

For technical support, contact: LED@vishay.com.

## PACKAGE DIMENSIONS (IN MILLIMETERS)



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## SEMICONDUCTORS:

Rectifiers • High-Power Diodes and Thyristors • Small-Signal Diodes • Zener and Suppressor Diodes  
• FETs • RF Transistors • Optoelectronics • ICs • Modules

## PASSIVE COMPONENTS:

Resistive Products • Magnetics • Capacitors • Strain Gage Transducers and Stress Analysis Systems



One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**

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