We Focus on the Automotive Market
DOMINANT Opto Technologies is one of the leading light-emitting diodes (LEDs) manufacturers in the world offering high-performance and innovative solutions for world-renowned car makers.

Established in 2000, DOMINANT has expanded globally, with 6 regional offices in close proximity to key design centers located in Europe, the United States, China, Japan, South Korea and India to provide professional sales and technical support.

Our comprehensive product portfolio ranges from low to high intensity LEDs with a wide range of color spectrum for interior applications e.g. instrument cluster, infotainment system, climate control, switches and ambient lighting as well as exterior applications e.g. head lamp, tail lamp, rear combination lamp, central high mounted stop lamp and license plate lamp. All of our products are qualified in accordance to the automotive qualification of AEC-Q102.

With extensive experience and expertise in research and technological development combined with state-of-the-art manufacturing facilities, DOMINANT is relentlessly pushing the boundaries of innovation without compromising on quality and reliability and has become a trusted and reliable partner for its customers.

For more information about DOMINANT, an IATF 16949 and ISO 14001 certified company, please visit our website at http://www.dominant-semi.com
Interior Illumination

Instrument Cluster, Infotainment System, HVAC, Shifter, Switches & etc

DomiLED

Mini DomiLED

Right Angle DomiLED

S SpiceLED

Hyper Red 640nm
Super Red 632nm
Red 625nm
Amber 615nm
Orange 605nm
Yellow 587nm
Green 572nm
Pure Green 560nm
True Green 525nm
Blue, 470nm

White
Warm White
Ice Blue
Sapphire Blue
# DomiLED

- Standard PLCC2 dimension of 3.2 x 2.8 x 1.8mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

<table>
<thead>
<tr>
<th>Package</th>
<th>Part Number</th>
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Mini DomiLED

- Standard PLCC2 dimension of 2.0 x 1.4 x 1.3mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

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<th>True Green 525nm</th>
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<th>Ice Blue</th>
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**Power DomiLED**

- Standard PLCC4 dimension of 3.2 x 2.8 x 1.8mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

<table>
<thead>
<tr>
<th>Package</th>
<th>Part Number</th>
<th>IF</th>
<th>IV range (mcd)</th>
<th>Super Red 632nm</th>
<th>Red 625nm</th>
<th>Amber 615nm</th>
<th>Orange 605nm</th>
<th>Yellow 587nm</th>
<th>Pure Green 560nm</th>
<th>True Green 525nm</th>
<th>Blue 470nm</th>
<th>White</th>
<th>Warm White</th>
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### Right Angle DomiLED

- Side view PLCC2 dimension of 4.2 x 1.3 x 1.2mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

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<tr>
<th>Package</th>
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**Colors and Compatibility**

- Super Red 632nm
- Red 625nm
- Amber 615nm
- Orange 605nm
- Yellow 587nm
- Green 572nm
- Pure Green 560nm
- True Green 525nm
- Blue 470nm
- White
- Warm White
- Ice Blue
- Sapphire Blue

- **DSx-ASS**
  - Compatibility: Yes
- **DSx-CSS**
  - Compatibility: Yes
- **DSx-NSS**
  - Compatibility: Yes
- **DSx-PSS**
  - Compatibility: Yes
- **DSx-DSS**
  - Compatibility: Yes
- **DSW-DHG**
  - Compatibility: Yes
- **DSx-LSG**
  - Compatibility: Yes
- **DSW-HSG**
  - Compatibility: Yes
### S SpiceLED

- Standard 0603 dimension of 1.6 x 0.8 x 0.6mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- Superior corrosion resistance
- Wide viewing angle 160°

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RGB Ambient Lighting

Multi DomiLED
SpiceLED RGB 3030
Right Angle RGB
SpiceLED RGB
seddLED3.0
COMING SOON
seddLED3.1
COMING SOON
# Standard RGB Solutions

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<th>SpiceLED RGB 3030</th>
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<td>D6RTB-SKG &amp; D6RTB-HKG</td>
<td>S8RTB-VHG</td>
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<td>3.0 x 3.0 x 0.7mm</td>
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<td>460-470nm</td>
<td>459-471nm</td>
<td>458-466nm</td>
<td>458-470nm</td>
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<tr>
<td><strong>Max Current</strong></td>
<td>50mA</td>
<td>50mA</td>
<td>200mA</td>
<td>50mA</td>
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</tbody>
</table>
Smart RGB Solutions

Smart Embedded Digital Driver

- Pre-calibrated to D65 White
- High Brightness at 1400mcd
- Current Consumption: typ 40mA
- Operating Temperature: -40°C to 110°C
- Half Duplex, Bi-Directional Communication at 2MBit/s
- Max. 4079 LEDs per system
- Full Color Spectrum
- Dimension: 3.2 x 3.3 x 1.35mm

seddLED 3.0

- Pre-calibrated to D65 White
- High Brightness at 800mcd
- Current Consumption: typ 40mA
- Operating Temperature: -40°C to 110°C
- Half Duplex, Bi-Directional Communication at 2MBit/s
- Max. 4079 LEDs per system
- Dimension: 3.2 x 3.3 x 1.35mm
- Special for high contrast fine pitch display

seddLED 3.1

Source: Mercedes
Human Centric Lighting

Daylight White
(~5500K CCT)

Natural White
(~4100K CCT)

Warm White
(~3000K CCT)

Good for reading

Good for work spaces

Soft and comfort
High CRI > 80 Solutions

**DDF-LJG**
- Rated Current: 20mA
- Max Current: 30mA
- Intensity: 1400mcd-2850mcd
- Viewing Angle: 120°
- Rthjs: max 180K/W
- Dimension: 3.2 x 2.8 x 1.8mm

**DWF-KZKG**
- Rated Current: 60mA
- Max Current: 80mA
- Intensity: 3550mcd-7150mcd
- Viewing Angle: 120°
- Rthjs: max 130K/W
- Dimension: 3.2 x 2.8 x 1.8mm

**PQW-SSG (Cool White)**
- Rated Current: 100mA
- Max Current: 180mA
- Flux: 30.6lm-51.7lm
- Viewing Angle: 120°
- Rthjs: max 45K/W
- Dimension: 3.7 x 3.5 x 0.8mm

**PQF-SSG (Warm White)**
- Rated Current: 100mA
- Max Current: 180mA
- Flux: 30.6lm-51.7lm
- Viewing Angle: 120°
- Rthjs: max 45K/W
- Dimension: 3.7 x 3.5 x 0.8mm

**DomiLED**

**Power DomiLED**

**PrimaxPlus**
High CRI > 90 Solutions

DDW-NJJ (Cool White)
DDF-NJJ (Warm White)
- Rated Current: 20mA
- Max Current: 30mA
- Intensity: 1125mcd-2240mcd
- Viewing Angle: 120°
- Rthjs: max 145K/W
- Dimension: 3.2 x 2.8 x 1.8mm

DWW-KJJ (Cool White)
DWF-KJJ (Warm White)
- Rated Current: 60mA
- Max Current: 80mA
- Intensity: 3550mcd-7150mcd
- Viewing Angle: 120°
- Rthjs: max 135K/W
- Dimension: 3.2 x 2.8 x 1.8mm

MAW-EHJ (Cool White)
MAF-EHJ (Warm White)
- Rated Current: 150mA
- Max Current: 250mA
- Flux: 30.6lm-51.7lm
- Viewing Angle: 120°
- Rthjs: max 30K/W
- Dimension: 3.7 x 3.5 x 0.8mm
Bi-Color Cool White & Warm White

**PrimaxPlus**

**Product Features:**
- Superior corrosion resistant – Gold Lead Frame
- High CRI >80% CW/WW
- Low thermal resistance
- Max operating temperature of 125°C
- Max storage temperature of 125°C
- Max junction temperature of 150°C

**Applications:**
- Automotive Interior Illumination
- Dome & Map Lighting

**MCFW-EZHG Bi-Color CW/WW**
- Rated Current: 150mA
- Voltage: Typ 3.2V
- Max Current: 250mA
- Luminous Flux: WW@2700K Q3R (34.8lm-51.7lm)  
  CW@6500K RS2 (39.8lm-59.0lm)
- Viewing Angle: 120°
- Dimension: 3.7 x 3.5 x 0.8mm
- Rthjs: 25 K/W (Typ)
Bi-Color Cool White & Warm White

SpicePlus 1408

Product Features:
- Superior corrosion resistant – Gold Lead Frame
- High CRI >80% CW/WW
- Low thermal resistance
- Max operating temperature of 125°C
- Max storage temperature of 125°C
- Max junction temperature of 150°C

Applications:
- Automotive Interior Illumination
- Matrix Dome Lamp

SBW-HHG Cool White High CRI > 80
- Rated Current: 30mA
- Voltage: Typ 3.0V
- Max Current: 50mA
- Luminous Flux: Typ 7.0lm
- Dimension: 1.4 x 0.8 x 0.6mm
- Rthjs: 92K/W(Typ), 115K/W (Max)

SBF-HHG Warm White High CRI > 80
- Rated Current: 30mA
- Voltage: Typ 3.0V
- Max Current: 50mA
- Luminous Flux: Typ 7.0lm
- Dimension: 1.4 x 0.8 x 0.6mm
- Rthjs: 92K/W(Typ), 115K/W (Max)
Head Up Display Solutions

MAW-YZHG-CNEN
- Rated Current: 350mA
- Max Current: 500mA
- Flux: 100lm; typical
- Viewing Angle: 120°
- Rthjs Elec: typ 8.0K/W
- Dimension: 3.7 x 3.5 x 0.8mm

PrimaxPlus

J1W-PZHY-DMEM
- Rated Current: 1A
- Max Current: 1.5A
- Flux: 285lm; typical
- Viewing Angle: 120°
- Rthjs Elec: typ 3.0K/W
- Dimension: 2.5 x 2.0 x 0.8mm

NagaJo 2025
Interior Illumination Applications

SpicePlus 3014

- EMC (Epoxy Molding Compound)
- Build-in ESD protection device
- Ultra low height profile - 0.52mm
- Low thermal resistance

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<th>SEW-WZSG-8P9Q-1</th>
<th>*SEW-WZSH-7P7Q-1</th>
<th>SEW-YZSG-9Q6S-1</th>
<th>*SEW-YZSH-8Q9R-1</th>
<th>SEW-EZSG-9P6R-1</th>
<th>*SEW-EZSH-8P9Q-1</th>
<th>SEW-FZSG-6R7S-1</th>
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<td>120mA</td>
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</tr>
</tbody>
</table>

**Max. Rthjs based on 60°.
*High NTSC solution for wide color gamut backlight display.
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Innovating Illumination