

Issue Date:  
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## VLED ASSEMBLIES FOR BACKLIT ELECTRICAL SIGNS

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### Application

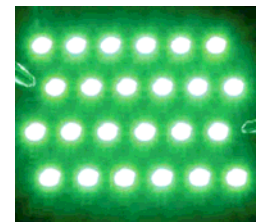
Illuminated channel letters and light box signs have become the most commonly used type of electrical signs. Channel letters have deep sidewalls with recessed light sources. Box signs utilize a recessed light source to illuminate a translucent front surface made of plastic or glass.

### Requirement

Channel letters and light box signs commonly use Neon, fluorescent or LEDs as their light source. Unlike neon and fluorescent light sources, LEDs are solid state devices that have no filaments and glass parts to break. LED assemblies provide sign companies a versatile ready-to-use light source, reducing sign installation and maintenance cost. LED lit signs provide longer product life and increase efficiency of brightness, minimizing long term maintenance cost.

### Solution from OPTEK: Visible LED Assemblies on Anotherm<sup>®</sup> Heat spreader

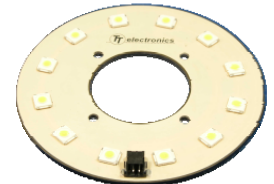
- Solid State devices do not have components that break, reducing maintenance cost.
- Superior thermal management through Anotherm<sup>®</sup> technology.
- Universal connector included.
- Viewing angle options available, including 120° and 40°.
- Energy-efficient assemblies offer high luminance and long operating life.
- Five standard mono color options.
- Custom colors and design available.



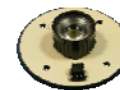
OPA729\_D



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OPA742\_-23



Surface Mount PLCC  
OVSxxxx

OPTEK Technology is a leading provider of custom sensing solutions which incorporate the use of infrared, visible light, magnetic and fiber optic technologies focused on applications in office machines, industrial equipment, encoders, automotive electronics, military and high-reliability applications and medical diagnostic equipment.