

## **Marktech Optoelectronics Adds Miniature Point Source LED Packages to Growing Product Lineup**

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Marktech Optoelectronics Corp. announces the addition of a PLCC-4 and miniature ceramic package to the 650nm and 850nm Point Source LED series. Point Source LEDs are designed to deliver precise and consistent performance in the most demanding applications such as high-speed optical encoders, linear positioning, optical switch and critical sensing applications. As miniaturization continues to be the focus of new product designs, small high reliability LED packaging will be needed to match performance.

Marktech Point Source LEDs are powered by a unique LED die that produces a well-defined pattern of light similar to a "point". These die or chips in combination with high quality optical grade glass lenses produce an extremely narrow, near parallel radiation pattern. This unobstructed, radiated beam pattern is made possible by masking the die and relocating the topside electrode. By eliminating the "dark spot" typically associated with the center of conventional LEDs, the point source LED yields superior results in critical sensing applications.

Through-hole package options for this series include high reliability hermetically sealed TO-18 and TO-46 metal cans with a variety of lensing options which produce an array of viewing angles. Devices supplied without optics are manufactured with a flat glass window allowing the designer to utilize proprietary collimating or other application specific optics to take full advantage of the undistorted beam. Vincent C Forte, Marktech CTO states "The Point Source LED is a suitable alternative to laser diodes in short distant applications offering increased temperature range capabilities and reduced risk of discharge due to ESD".

Custom packaging designs, which include Chip on Board configurations or custom apertures, are also available.



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