

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









POWER LED IMS® SUBSTRATES

Bergquist shortens the design cycle and speeds up your time to market.

Thermal Clad substrates offer more flexibility in selecting LED components

Bergquist offers a family of standard thermally conductive insulated metal substrate (IMS) circuit boards specifically for LED applications which replace conventional FR-4 PCBs. Better thermal management allows more forward current to be applied to the LED, while still maintaining desired die temperatures, which means more light and possibly reducing the number of LEDs required to achieve the desired light output. With proper thermal management, Power LED lifetimes can be extended considerably.

Now you can get a jump-start on your design with one of these star or square substrates; available in single, strip or array configurations. Choose from IO different LED footprints to give you the freedom to select the LED component's color, brightness and power that best fits your needs. Optimize the prototyping process with the lowest possible operating temperatures and the brightest light output for your next Power LED application. The most popular LED profiles on the world's most reliable IMS – matched for your design ease.

Standard Bergquist Thermal Clad® LED Configurations

19.9mm (A) Star (.063") 6xR.8mm (.032") 0 25.4mm (1.00") (C) Square 4.9mm (.192") 3.1mm (.121") - 22.4mm (.883") -19.1mm (.75") -12.7mm (.50") 96.5mm (3.80") -3.2mm (.125") (B) Star Array 25.4mm (1.00"

Bergquist Thermal Clad® IMS Specs

Base Metal 1.57mm (0.062") Aluminum 5052
Thermally Conductive .076mm (3 mil) MP

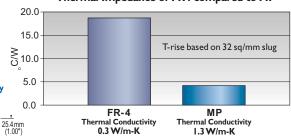
Dielectric

Copper Circuit Foil 35μm (1oz.) copper circuit foil

Surface Finish White solder mask, Pb-free HASL solder pads

(RoHS compliant)

Thermal Impedance of FR4 compared to MP



Bergquist Thermal Clad® - Standard Power LED IMS Selection Guide					
LED Footprint Type		Star Board (I-up) (A) Part No.	Star Array (36 - up) (B) Part No.	Square Board (I-up) (C) Part No.	Square Strip (17-up) (D) Part No.
1	Osram Golden Dragon®	803128	803268	803118	803288
2	Lite-On® LOPL	803123	803263	803113	803283
3	Lumex SML-LX	803124	803264	803114	803284
4	$Lumileds^{\text{\tiny{TM}}}\;Luxeon^{\circledR}\;I,III\;and\;V$	803125	803265	803115	803285
5	Lumileds™ Luxeon® K2	803126	803266	803116	803286
6	Lumileds™ Luxeon® Rebel	803127	803267	803117	803287
7	Cree® XLamp®	803122	803262	803112	803282
8	Seoul Semiconductor Z-Power	803129	803269	803119	803289
9	Nichia Power LED 3.5 x 3.5	803291	803292	803290	803293
10	Avago Moonstone™ Emitter	803121	803261	803111	803281

25.4mm (1.00")

These products are available through your local distributor, please call or check our website for contact information.



www.bergquistcompany.com

The Bergquist Company North American Headquarters 18930 West 78th Street Chanhassen, MN 55317 Phone: 800-347-4572 Fax: 952-835-4156

(D) Square

The Bergquist Company European Headquarters Bramenberg 9a, 3755 BT Eemnes Netherlands Phone: 31-35-5380684 Fax: 31-35-5380295

The Bergquist Company Asian Headquarters Room 15, 8/F Wah Wai Industrial Centre No.38-40 Au Pui Wan Street, Fotan, Shatin, N.T., Hong Kong Ph: 852-2690-9296

Fax: 852-2690-2344

All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NETHER SELIER NOR MANUFACTURER SHALL BE LIABLE EITHER INTORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTIAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

WHP TClad LED 71508 v8

Bergquist Thermal Clad®

POWER LED IMS® SUBSTRATES

