



**Shanghai EverSkill M&E Co.,Ltd.**

*YOUR PARTNER  
FOR SUCCESS*

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### Global Customer Service

We anticipate and meet customer needs with the highest quality products and services in a timely and cost effective manner.

### World Wide Availability

We support product development cycles with dedicated sales engineering resources and factory that deliver on time, anywhere in the world.

### Service

At Everskill, we have built a singular source, under one name, for all your thermal management needs. We dedicate our varied resources to provide you with the optimum cooling solution in the fastest possible time. Establishing an alliance with Everskill at the start of your project will bring this full spectrum of capabilities to your design team and will ultimately provide you with a competitive advantage.

## About EverSkill

Everskill is the professional provider of thermal management solutions. Everskill is the partner of choice for companies focused on introducing next generation products to market faster, with greater reliability, and increased functionality. We provide the industry's broadest product offering, ranging from the smallest board level cooling solution to removing heat from several thousand kilowatt industrial applications. Our design capabilities extend beyond standard products and use the most advanced thermal engineering resources available to design application specific product solutions. Everskill solutions cool critical electronic components in computers, transportation, communications infrastructure, power supplies, motor controls, power conversion equipment, and more.



ISO 9001:2008

### Our Mission

Everskill will lead the thermal management industry worldwide. We will be the company with to solve their most demanding thermal challenges from our customers. Our business processes are designed for speed, technical innovation, global convenience and will reduce our customers time to market because we understand their needs and priorities.

### World Class Manufacturing

We deliver innovative, quality products to market cost effectively using global resources and a broad portfolio of manufacturing processes and capabilities.

### Global Logistics Support

We integrate seamlessly into our customers supply chain by leveraging our global footprint to supply product quickly when they need it.



## How to Select a Heat Sink

With the increase in heat dissipation from microelectronic devices and the reduction in overall form factors, thermal management becomes a more and more important element of electronic product design.

Both the performance reliability and life expectancy of electronic equipment are inversely related to the component temperature of the equipment.

The relationship between the reliability and the operating temperature of a typical silicon semiconductor device shows that a reduction in the temperature corresponds to an exponential increase in the reliability and life expectancy of the device.

Therefore, long life and reliable performance of a component may be achieved by effectively controlling the device operating temperature within the limits set by the device design engineers.

Heat sinks are devices that enhance heat dissipation from a hot surface, usually the case of a heat generating component, to a cooler ambient, usually air.

For the following discussions, air is assumed to be the cooling fluid. In most situations, heat transfer across the interface between the solid surface and the coolant air is the least efficient within the system, and the solid-air interface represents the greatest barrier for heat dissipation.

A heat sink lowers this barrier mainly by increasing the surface area that is in direct contact with the coolant.

This allows more heat to be dissipated and/or lowers the device operating temperature.

The primary purpose of a heat sink is to maintain the device temperature below the maximum allowable temperature specified by the device manufacturer.

## Product Line

### BGA

A family of BGA heat sinks offers a wide range of cooling solutions for motherboard, video card, and networking applications.

### Microprocessors

Complete cooling solutions are available for popular microprocessors, including interface material and attachment methods. Copper Cpu heat sinks available.

### DC-DC Converters

Heat sinks designed to match popular DC to DC converter packages, extending their life and performance.

### Electrolytic Capacitors

Cap Coolers improve the performance and extend the life of 3" diameter electrolytic capacitors.

### IGBT Modules

Choose from several options for cooling IGBT modules - cold plates, extrusions, bonded fin, and fan heat sinks.

### LED Light Sources

Everskill's wide selection of standard heat sinks provides easy, fast access to cooling solutions for the new generation of LED light sources.



Extruded Heat Sinks provide a greater range of natural convection solutions for higher power components and systems.

Complex fin structures can be created by forcing raw aluminum through an extrusion die.

These complex fin profiles allow greater heat dissipation through increased surface area while eliminating the cost and time associated with machining an equivalent shape from block aluminum.

## Performance Factor Table

EXTRUSION LENGTH (in)	NATURAL CONVECTION	FORCED CONVECTION, AIR VELOCITY (ft/min)											
		100	200	300	400	500	600	700	800	900	1000	1100	1200
0.25	242.2	183.33	129.63	105.84	91.66	81.98	74.84	69.39	64.81	61.11	57.97	55.27	52.92
0.5	171.27	129.63	91.66	74.84	64.81	57.97	52.92	48.99	45.83	43.21	40.99	39.08	37.43
1	121.1	91.66	64.77	52.89	45.8	40.96	37.4	34.62	32.38	30.53	28.97	27.62	26.44
2	85.63	64.89	45.88	37.46	32.44	29.02	26.49	24.52	22.94	21.63	20.52	19.56	18.73
3	69.92	52.88	37.39	30.53	26.44	23.64	21.58	19.98	18.69	17.62	16.72	15.94	15.26
4	60.55	45.81	32.39	26.45	22.9	20.49	18.7	17.31	16.19	15.27	14.48	13.81	13.22
5	54.16	40.99	28.98	23.66	20.49	18.33	16.73	15.49	14.49	13.66	12.96	12.36	11.83
6	49.44	37.39	26.44	21.58	18.69	16.72	15.26	14.13	13.22	12.46	11.82	11.27	10.79
7	45.77	34.61	24.47	19.98	17.3	15.48	14.13	13.08	12.23	11.53	10.94	10.43	9.99
8	42.82	32.39	22.9	18.7	16.19	14.48	13.22	12.24	11.45	10.79	10.24	9.76	9.35
9	40.37	30.53	21.58	17.62	15.26	13.65	12.46	11.53	10.79	10.17	9.65	9.2	8.81
10	38.3	28.97	20.48	16.72	14.48	12.95	11.82	10.94	10.24	9.65	9.16	8.73	8.36
11	36.51	27.62	19.53	15.95	13.81	12.35	11.27	10.44	9.76	9.2	8.73	8.32	7.97
12	34.96	26.44	18.69	15.26	13.22	11.82	10.79	9.99	9.34	8.81	8.36	7.97	7.63
13	33.59	25.4	17.96	14.66	12.7	11.36	10.37	9.6	8.98	8.46	8.03	7.66	7.33
14	32.37	24.48	17.31	14.13	12.24	10.95	9.99	9.25	8.65	8.16	7.74	7.38	7.06



### Quality Systems Management

It is our policy to supply products which meet or exceed customer requirements for quality, delivery, performance, and value. Our mission is to make customer satisfaction. We are committed to continuous improvement throughout the corporation through application of world class business principles.

## Quality Assurance

### Our Promise

Guarantee product quality by drawing;  
Offer best service and proper delivery time as clients want;  
Continuous innovation and breakthrough with the  
Development of market;  
Our aim is to become your best cooperative choice

### Our Predominance

Excellent Material  
Advanced Equipment  
One-up Technique  
Precision Verification  
System Assurance

# JOIN US!



## Key Partners

Icon fitness



Enoc System



Blend Tec



Thule



Special Ops



Bright Group



Kwik-Wall



Luxfer Cylinder



Dana



## Sales Network

*"Satisfying Our Customers  
Equals To Satisfy Ourselves"*

### Our Sales Network

"Satisfying our customers equals to satisfy ourselves", based on optimizing our resource and good quality and management system, we keep on developing and innovating to offer our clients the best solution; At the same time our products are also exported to America, Germany, France, Switzerland, Italy Japan, Korea etc our ten countries in the world and we found permanent and stable cooperative relation with them; We will also make good use of our advantage of advanced technique to promote new materials in the new fields and to head and fit the changeable requirement



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