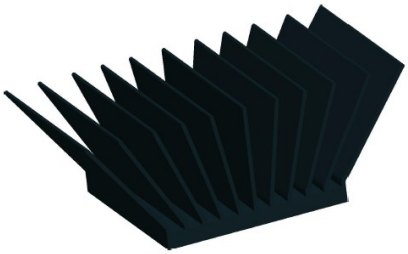
Smart Heatsinks
Unlike Any Others

SHS B - SERIES HEAT SINK for BGA, CPU and GPU, etc. devices

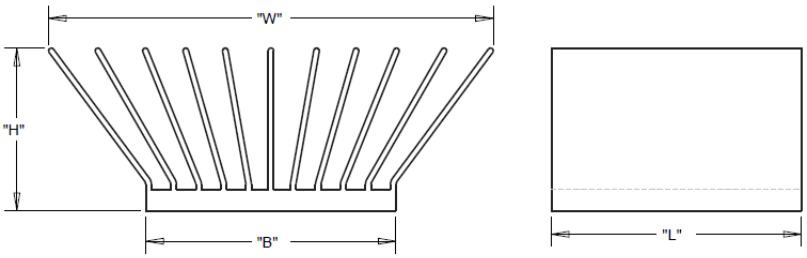
B - Series Heat Sinks



Smart Heatsinks, Inc. introduces the low cost, B-series, standard heat sinks for BGA and CPU/GPU, devices. This simple heat sink can be attached to devices with either the most popular adhesive thermal tape or spring clip onto PCB. The heat sink offers black anodized surface finish and can be used in either natural (free) or forced convection cooling applications.

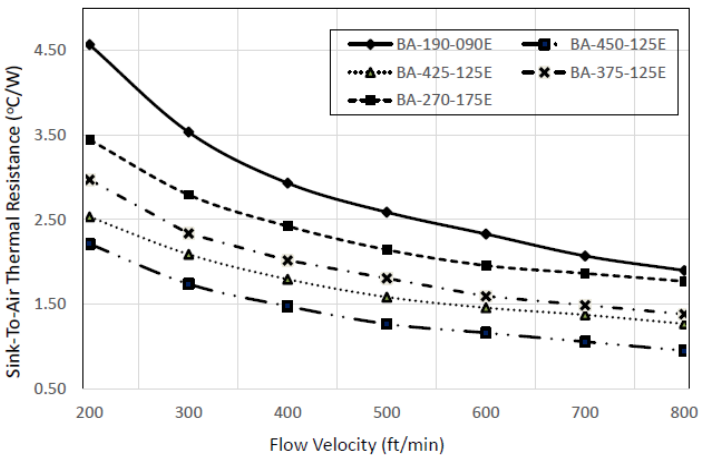
SPECIFICATOINS

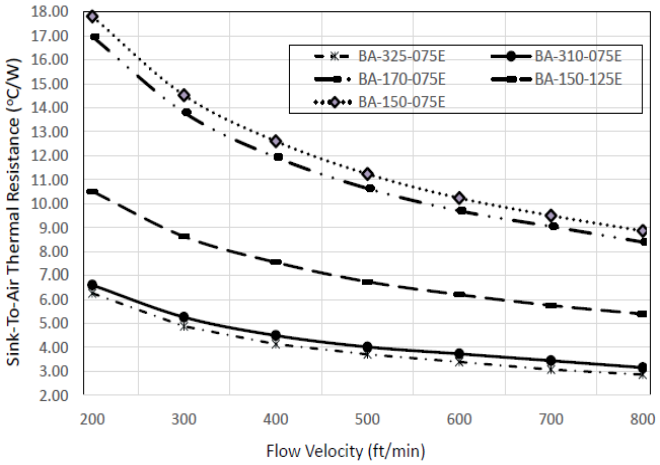
Heat Sink: Aluminum Alloy 6063-T5 or Equivalent with either degreased or black anodized finish.
Attachment Method: Thermal tape or Spring clip
Mounting: PCB level heat sink, no soldering
Compliance: Either degreased or black anodized finished parts are compliant with RoSH.



Standard Part Number	Height "H" (mm)	T-Width "W" (mm)	B-Width "B" (mm)	Length "L" (mm)	Surface Area (mm^2)	Weight (g)	Attach Method
BGA-150-125E	12.5	30.0	15.0	15.0	3040	3.4	Tape
BGA-150-75E	7.5	28.0	15.0	15.0	2060	2.6	Tape
BGA-170-75E	7.5	28.0	17.0	17.0	2276	3.0	Tape
BGA-270-175E	17.5	48.0	27.0	27.0	11679	12.5	Tape
BGA-310-75E	7.5	44.0	31.0	31.0	6663	9.5	Tape
BGA-190-90E	9.0	26.0	19.0	19.0	3337	4.1	Tape
BGA-450-125E	12.5	68.0	45.0	45.0	20893	25.8	Tape
BGA-425-125E	12.5	72.0	42.5	42.5	18160	22.6	Tape
BGA-375-125E	12.5	60.0	37.5	37.5	15225	18.4	Tape
BGA-325-75E	7.5	44.0	32.5	32.5	7034	10.3	Tape

THERMAL PERFORMANCE





RECOMMEND THERMAL ADHESIVE MATERIAL

Standard P/N	MANUFACTURER	THERMAL IMPEDANCE (C-in^2/W)	THICKNESS (INCHES)	COMMENTS
T-405	CHOMERITCS	0.47	0.006	UL94 V-0 rated. Super thermal performance
T-412	CHOMERITCS	0.25	0.009	Good adhesion, Super thermal performance
8815	3M	1.2	0.015	High mechanical strength. Improved surface wet-out for rough surface

ORDERING INFORMATION

Standard P/N	Descriptions	Packaging	Attachment Method
BGA-150-125E	BGA Heatsink, 15 X 15 X 12.5, black anodized	Bulk	Thermal adhesive tape
BGA-150-75E	BGA Heatsink, 15 X 15 X 7.5, black anodized	Bulk	Thermal adhesive tape
BGA-170-75E	BGA Heatsink, 17 X 17 X 7.5, black anodized	Bulk	Thermal adhesive tape
BGA-270-175E	BGA Heatsink, 27 X 27 X 17.5, black anodized	Bulk	Thermal adhesive tape
BGA-310-75E	BGA Heatsink, 31 X 31 X 7.5, black anodized	Bulk	Thermal adhesive tape
BGA-190-90E	BGA Heatsink, 19 X 19 X 9.0, black anodized	Bulk	Thermal adhesive tape
BGA-450-125E	BGA Heatsink, 45 X 45 X 12.5, black anodized	Bulk	Thermal adhesive tape
BGA-425-125E	BGA Heatsink, 42.5 X 42.5 X 12.5, black anodized	Bulk	Thermal adhesive tape
BGA-375-125E	BGA Heatsink, 37.5 X 37.5 X 12.5, black anodized	Bulk	Thermal adhesive tape
BGA-325-75E	BGA Heatsink, 32.5 X 32.5 X 7.5, black anodized	Bulk	Thermal adhesive tape