



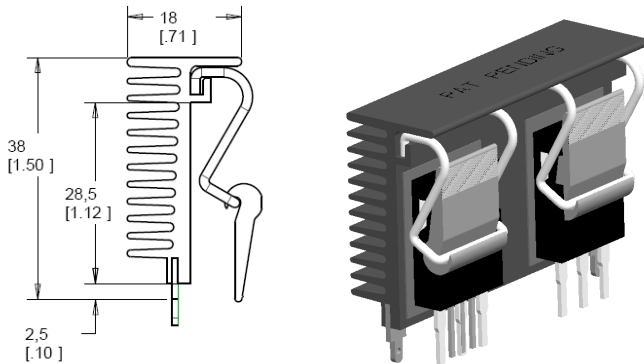
Smart Heatsinks
Unlike Any Others

Camming Clip, Configurable Heat Sinks

For TO-264, TO-247, TO-220 and Others



C-100 Series Heat Sink



Smart Heatsinks®, Inc. introduces the Camming clip, configurable and patented (Pat. Pending) high performance, low cost and compact heats for TO-220, TO-247 and TO-264 packages. This powerful heat sink provides tool and fixture free assembly operation, largest surface areas and smallest space occupation. It is the ideal type of heat sink for high power density and small size (1U or 2U) electronic packaging with forced convection cooling.

FEATURES AND BENIFITS

Minimum assembly cost and labor

Spring Clips make the mounting holes, fasteners, tools and fixtures obsolete in assembly operations & reduce costs.

Maximum Thermal Transfer

Maximum surface area per unit volume, efficient cooling fins & consistent mounting force reduces thermal resistance

Maximum Repeatability

Constant spring force over repeated assembly/disassembly

Maximum Reliability

Resilient spring action locks electronic component in place. Fewer parts in assembly and no fasteners and washers required. Prevent short circuit by eliminating metal particles generated from hardware or thread tapping

Design Flexibility

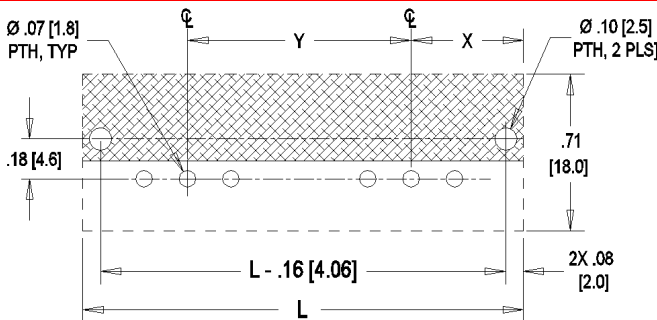
Maximum flexibility for dynamic device locations and power up grading. *“Configure-to-Fit”* gives designers total freedom to configure heat sink needed to fit their dynamic design environments.

Heat Sink Part Number	Surface Area (in ² / mm ²)	Weight (oz/g)	Length “L” (mm)
CM141-18-25-D	11 / 7,312	0.5 / 15	25
CM141-18-25-B			
CM142-18-50-D	23 / 14,858	1.1 / 31	50
CM142-18-50-B			
CM143-18-75-B	34 / 21,655	1.6 / 45	75
CM143-18-75-B			

Same for CM-12X-18-XX-X – TO-220 heat sinks.

Heat Sink Part Number	Surface Area (in ² / mm ²)	Weight (oz/g)	Length “L” (mm)
CM161-18-30-D	13 / 8,774	0.6 / 18	30
CM161-18-30-B			
CM162-18-58-D	27 / 17,235	1.3 / 36	58
CM162-18-58-B			
CM163-18-85-B	38 / 24,542	1.8 / 51	85
CM163-18-85-B			

LAND PATTERN



SPECIFICATOINS

Heat Sink: Aluminum Alloy 6063-T5 or Equivalent with either degressed or black anodized finish.

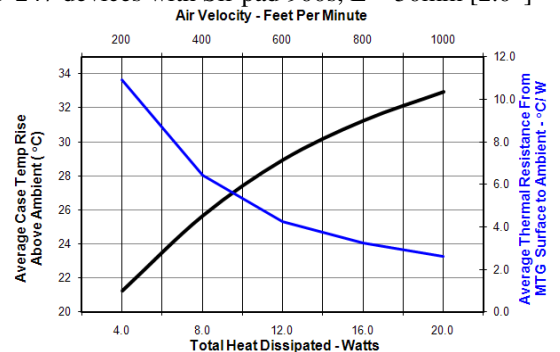
Spring Clip: Music Wire, Per ASTM A228 with bright nickel plating

Solder Foot: Cold-rolled Steel, Per ASTM A-366 with pure tin over copper strike. RoHS compliant.

Insulator (Optional): Sil-Pad 900-S, K6 800-S and K10

THERMAL PERFORMANCE

Two TO-247 devices with Sil-pad 900s, L = 50mm [2.0”]



PART NUMBER CONFIG INFORMATION

OF SIDE W/DEVICE | CLIP TYPE | WIDTH (mm) | FINISH: D-DEGRESSED B-BLACK ANODIZED

CM 1 4 X - W - L - F

SERIES | # OF CLIP | LENGTH (mm)

Clip Type: 2 for TO-220, 4 for TO-247 and 6 for TO-264



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Clamping Clip, Configurable Heat Sinks

For TO-264, TO-247, TO-220 and Others



STANDARD PART NUMBER FOR TO-220 PACKAGE

Part Number	Descriptions	Packaging
CM121-18-25-D	Heat sink, degreased	Bulk
CM121-18-25-B	Heat sink, black anodized	Bulk
CM122-18-50-D	Heat sink, degreased	Bulk
CM122-18-50-B	Heat sink, black anodized	Bulk
CM123-18-75-D	Heat sink, degreased	Bulk
CM123-18-75-B	Heat sink, black anodized	Bulk

STANDARD PART NUMBER FOR TO-247 PACKAGE

Part Number	Descriptions	Packaging
CM141-18-25-D	Heat sink, degreased	Bulk
CM141-18-25-B	Heat sink, black anodized	Bulk
CM142-18-50-D	Heat sink, degreased	Bulk
CM142-18-50-B	Heat sink, black anodized	Bulk
CM143-18-75-D	Heat sink, degreased	Bulk
CM143-18-75-B	Heat sink, black anodized	Bulk

STANDARD PART NUMBER FOR TO-264 PACKAGE

Part Number	Descriptions	Packaging
CM161-18-30-D	Heat sink, degreased	Bulk
CM161-18-30-B	Heat sink, black anodized	Bulk
CM162-18-58-D	Heat sink, degreased	Bulk
CM162-18-58-B	Heat sink, black anodized	Bulk
CM163-18-85-D	Heat sink, degreased	Bulk
CM163-18-85-B	Heat sink, black anodized	Bulk