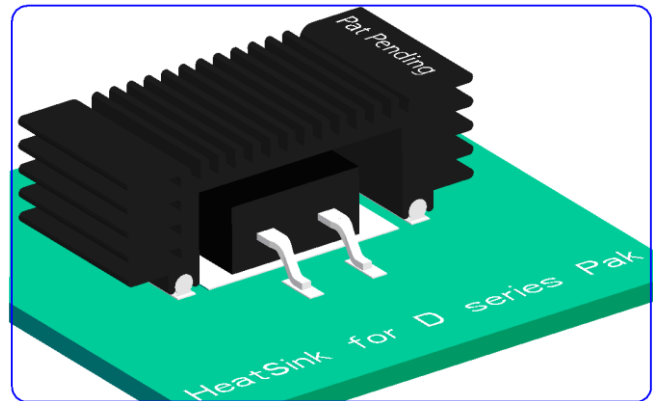




SMART HEATSINKS SURFACE MOUNT HEAT SINKS

Smart Heatsinks® introduces an innovation in SMT compatible heat sinks to meet the needs of newer higher power SMT devices. The heat sinks' unique design (Patent Pending) combines the technology of automatically assembling the tin-plated solderable rods with that of extruded aluminum anodized or painted heat sink body to configure these SMT heat sinks. Rods named "Rollers" are mated mechanically to the heat sink body by forging or other mechanical means to reduce the interface thermal resistance between the drain-pads & heat dissipation body.

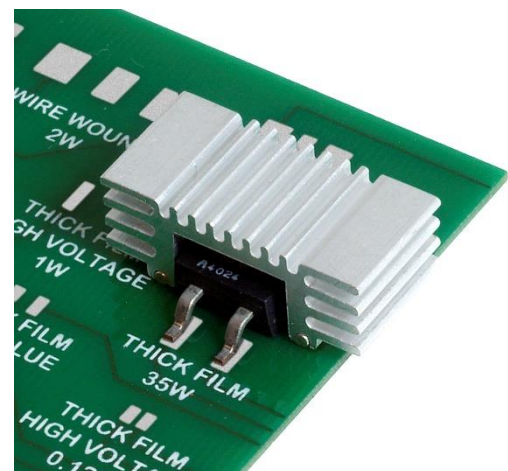
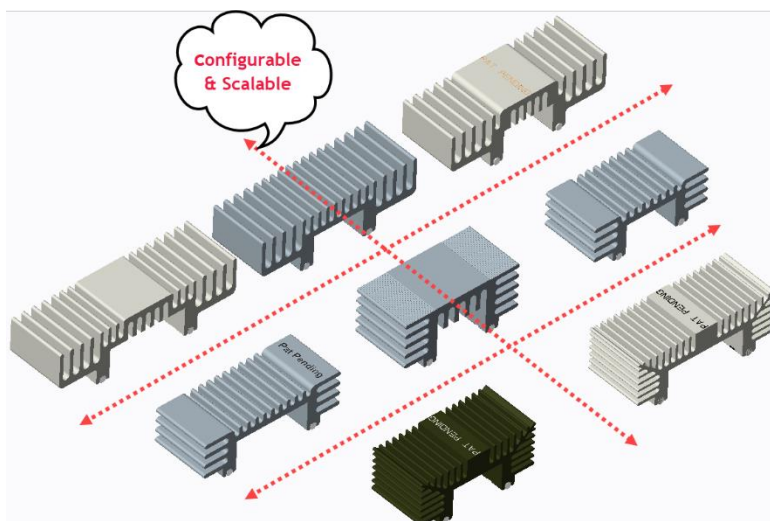


FEATURES AND BENEFITS:

- Increased thermal performance up to 30% over bright copper heat sinks from improved radiation of the black finish
- Increased surface areas by 3 times therefore thermal performance up to 300% over the aluminum stamped heat sinks on markets
- Unique aluminum extrusion design reduces the heat sink cost versus similar designs utilizing copper
- Light weight aluminum construction allows faster pick and place assembly reducing the manufacturing cycle time
- Radius mounted "Rollers" are designed for maximizing heat transfer from component and to avoid "bottle neck" heat transfer like the Aluminum stamped from Aavid.
- Available in bulk packaging or Tape & Reel

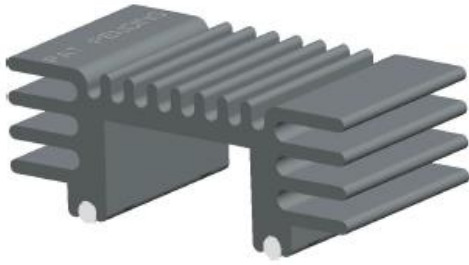
APPLICATIONS:

- Power Suppliers
- Telecommunications
- Motor controls
- Medical Equipment
- Avionic Electronic
- Military Electronic
- Consumer Products
- Solar Energy

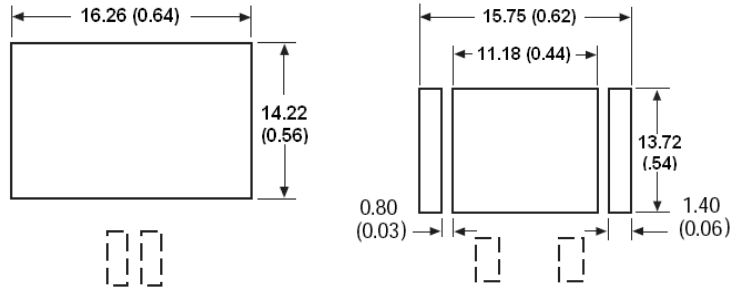




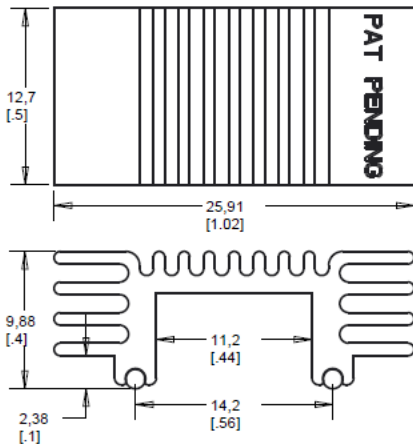
The 1st generation SMT Heat Sink for D2 Pack



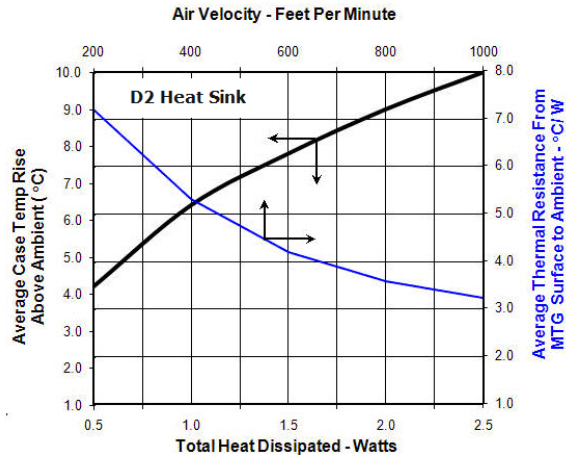
SHS-D2-101-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint

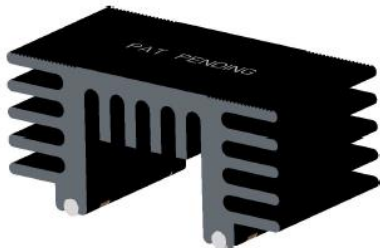


Outline Dimensions

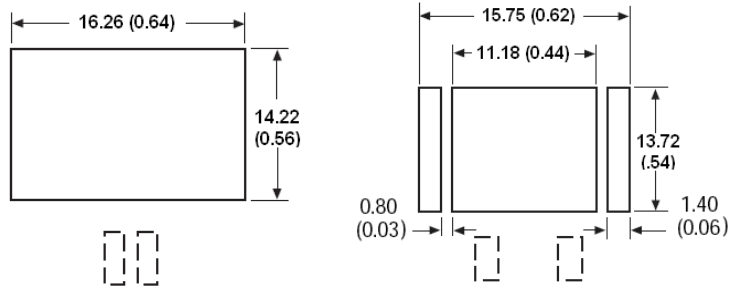


Thermal Performance

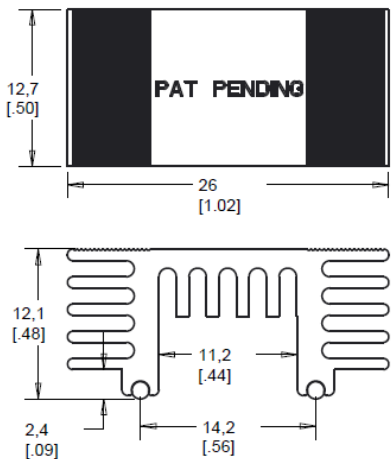
The 2nd generation SMT Heat Sink for D2 Pack



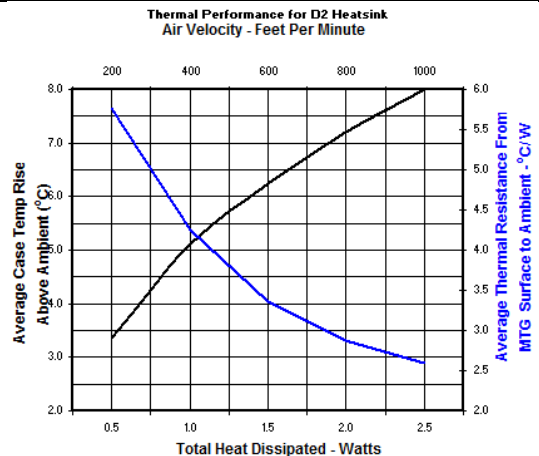
SHS-D2-103-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint



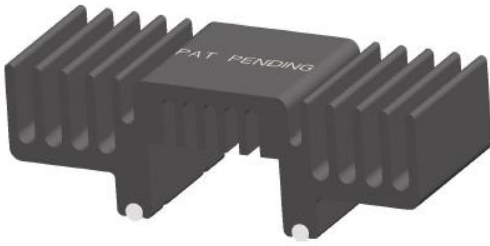
Outline Dimensions



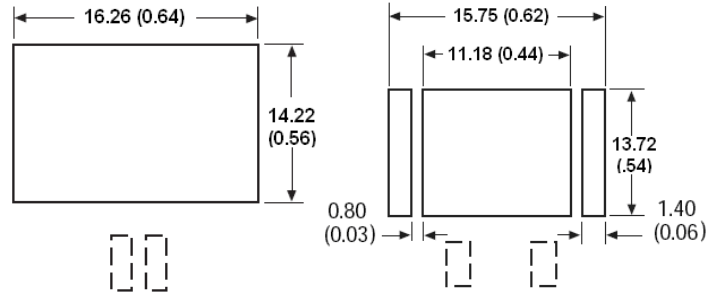
Thermal Performance



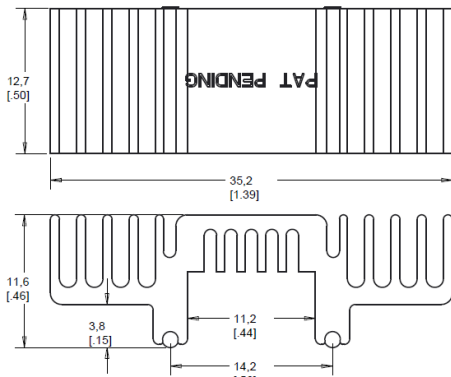
The 3rd generation SMT Heat Sink for D2 Pack



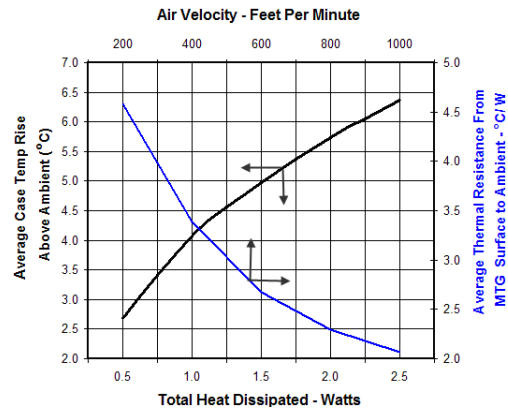
SHS-D2-313-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint

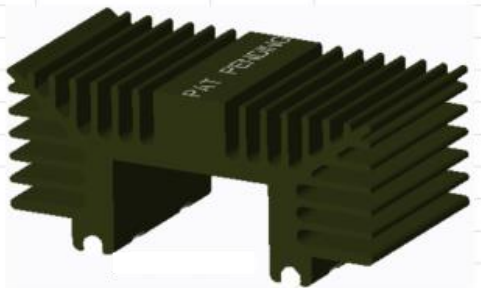


Outline Dimensions

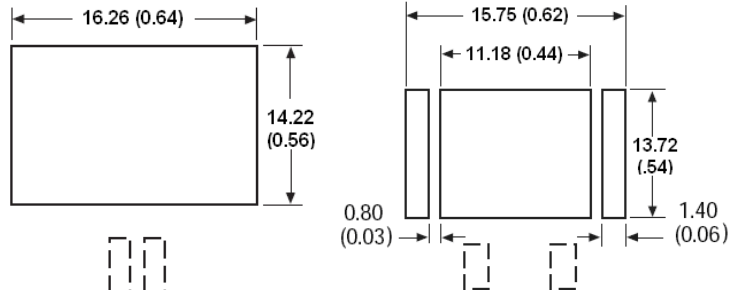


Thermal Performance

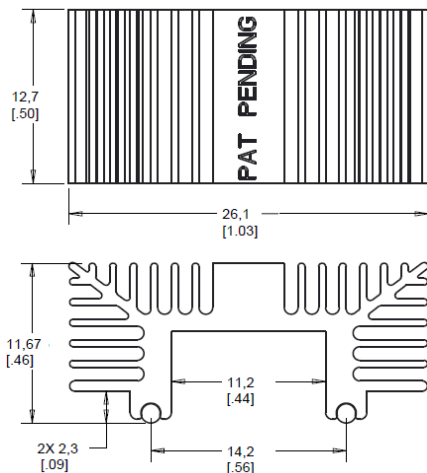
The 4th generation SMT Heat Sink for D2 Pack



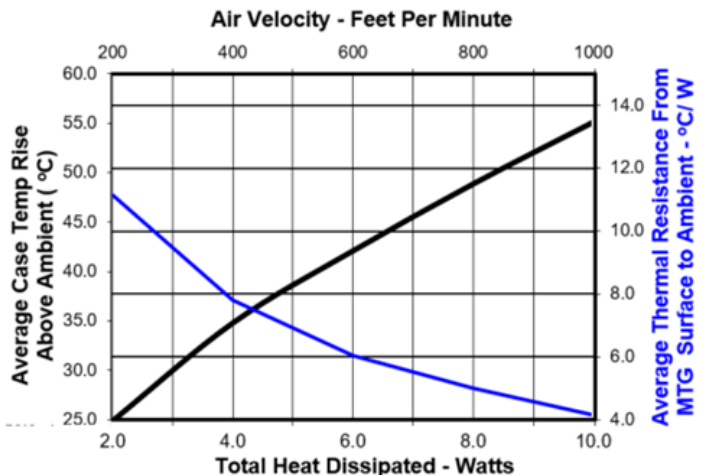
SHS-D2-413-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint



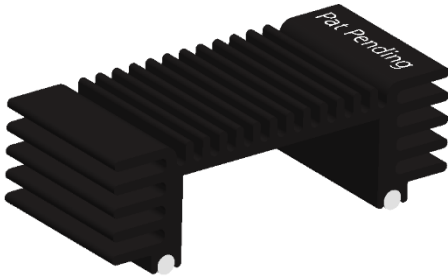
Outline Dimensions



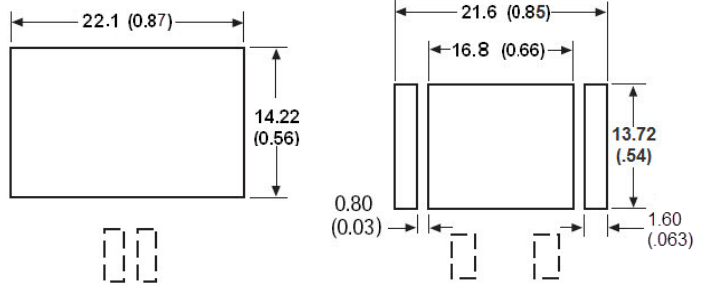
Thermal Performance



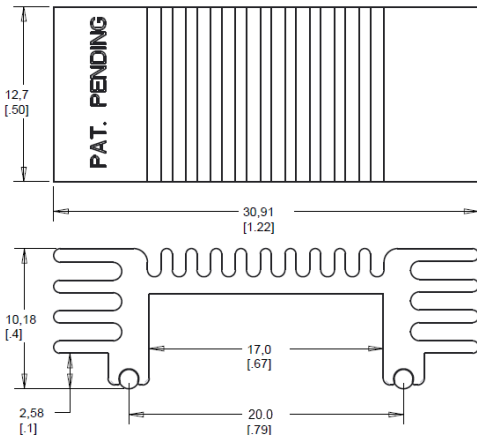
The 1st generation SMT Heat Sink for D3 Pak



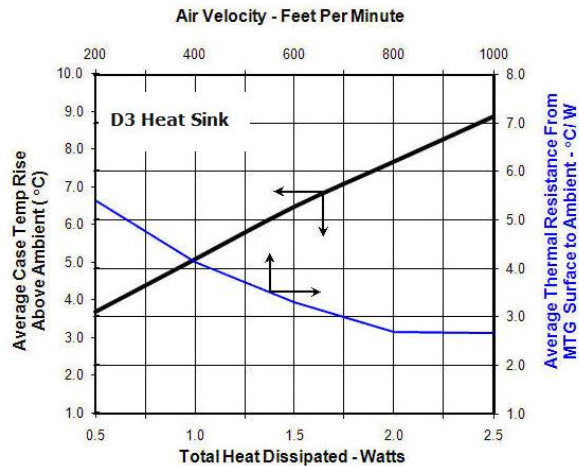
SHS-D3-101-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint

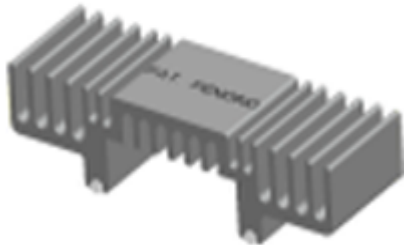


Outline Dimensions

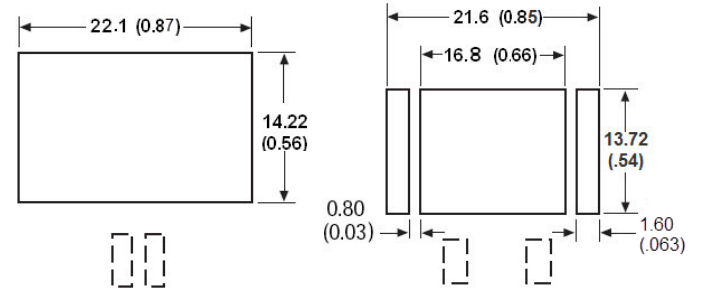


Thermal Performance

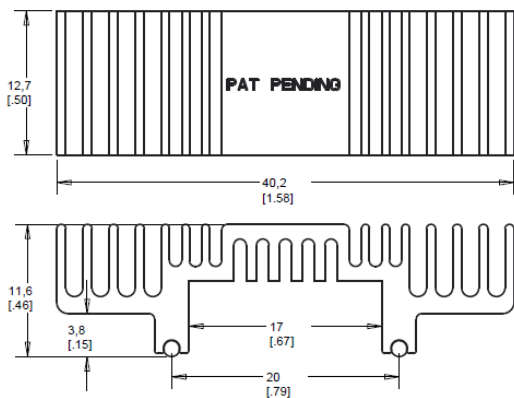
The 3rd generation SMT Heat Sink for D3 Pak



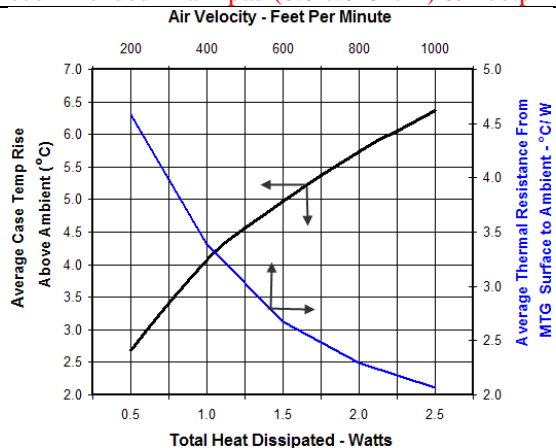
SHS-D3-313-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint



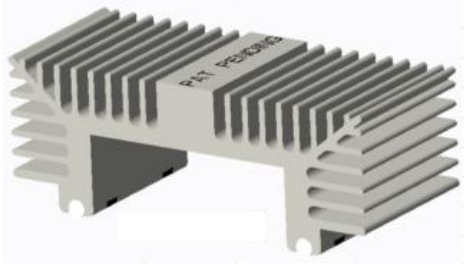
Outline Dimensions



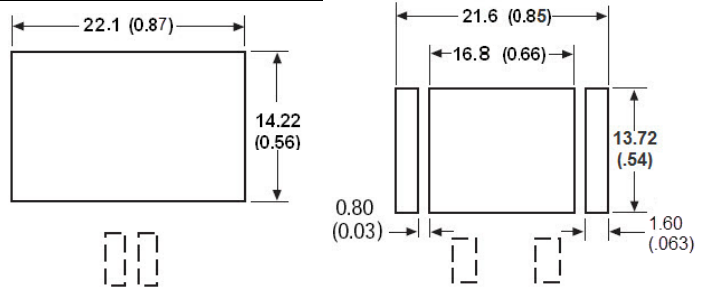
Thermal Performance



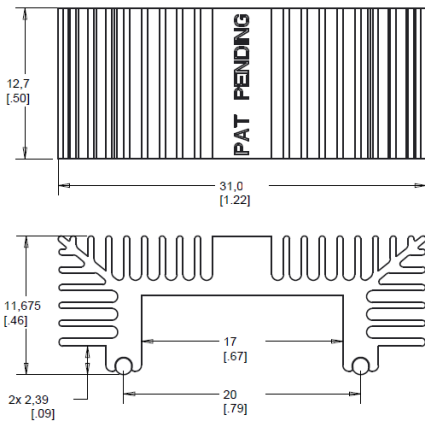
The 4th generation SMT Heat Sink for D3 Pack



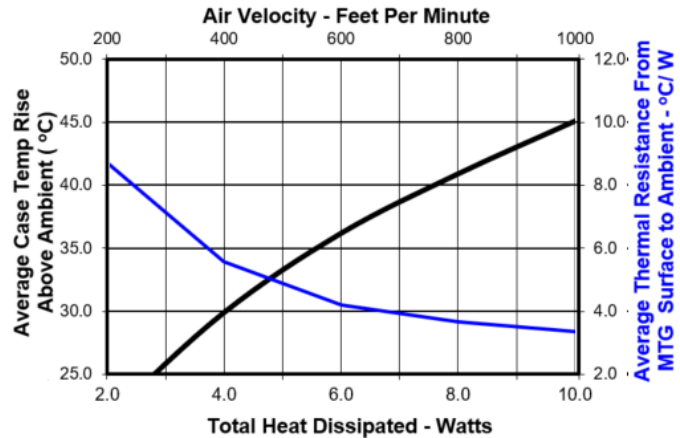
SHS-D3-413-D/-B



Recommended Drain-pad (0.64/.025"thk) & Footprint



Outline Dimensions



Thermal Performance

PRODUCT ORDERING INFORMATION

Part Number	Descriptions	Packaging
SHS-D2-101-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-101-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-101-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-101-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D2-103-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-103-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-103-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-103-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D2-313-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-313-B	Heat sink for D or D2 PAK, black anodized	Bulk
SHS-D2-313-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-313-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D2-413-D	Heat sink for D or D2 PAK, degreased finish	Bulk
SHS-D2-413-B	Heat sink for D or D2 PAK, black anodized	Bulk

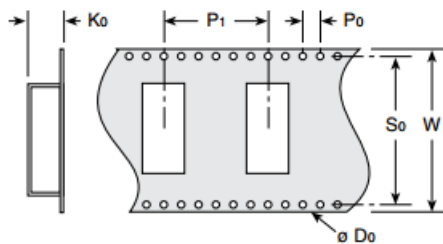


SHS-D2-413-D-TR	Heat sink for D or D2 PAK, degreased finish	13" reel 250/reel
SHS-D2-413-B-TR	Heat sink for D or D2 PAK, black anodized	13" reel 250/reel
SHS-D3-101-D	Heat sink for D3 PAK, degreased finish	Bulk
SHS-D3-101-B	Heat sink for D3 PAK, black anodized	Bulk
SHS-D3-101-D-TR	Heat sink for D3 PAK, degreased finish	13" reel 250/reel
SHS-D3-101-B-TR	Heat sink for D3 PAK, black anodized	13" reel 250/reel
SHS-D3-313-D	Heat sink for D3 PAK, degreased finish	Bulk
SHS-D3-313-B	Heat sink for D3 PAK, black anodized	Bulk
SHS-D3-313-D-TR	Heat sink for D3 PAK, degreased finish	13" reel 250/reel
SHS-D3-313-B-TR	Heat sink for D3 PAK, black anodized	13" reel 250/reel
SHS-D3-413-D	Heat sink for D3 PAK, degreased finish	Bulk
SHS-D3-413-B	Heat sink for D3 PAK, black anodized	Bulk
SHS-D3-413-D-TR	Heat sink for D3 PAK, degreased finish	13" reel 250/reel
SHS-D3-413-B-TR	Heat sink for D3 PAK, black anodized	13" reel 250/reel

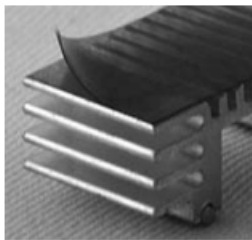
Note: -D means degreased, no finish, -B means black anodized finish

TAPE & REEL PACKAGING INFO

Reel diameter: 13.00" (330.00mm)
250 pcs. per



Do	1.55mm	1.5mm	1.5mm
Ko	10.5mm	12.20mm	11.80mm
Po	4mm	4.0mm	4.0mm
P1	20mm	20mm	20.0mm
So	40.4mm	40.4mm	52.4mm
W0	44mm	44mm	56mm



Removable Kapton tape on each part facilitates handling by automatic pick and place equipment.

Only for heat sinks with no flat head

Note: Nee to consult with our technical support for detailed Tape & Reel packaging info.