



Heatsink Comparison/Selection Chart

Revised 2/28/2001

	Press Fit Heatsink	Power Heatsink	Extruded Heatsink	Cold Forged Heatsink
Performance	High	Highest	Low	Medium
Unit cost	High	Highest	Low	Medium
Tooling cost	Medium	High	Low	Highest
Optimal production quantity	Medium	Low	Highest	High
Fin aspect ratio	Up to 50	Up to 50	Up to 10	Up to 20
Required space for heat rejection	Small	Smallest	Large	Medium
Design flexibility	Highest	Highest	Medium	Low
Applications	Forced convection High heat load / flux >50 watts Tall fin / small foot print Server CPU cooling Power IC cooling	Force / natural convection High heat load / flux >50 watts Maximize fin efficiency and base heat spreading Server CPU cooling Power IC cooling	Force / natural convection Mass quantity production General heat dissipation for 1 to 1000 watts Low cost	Forced / natural convection Mass quantity production Heat load < 100 watts IC package cooling Pin fin and plate fin