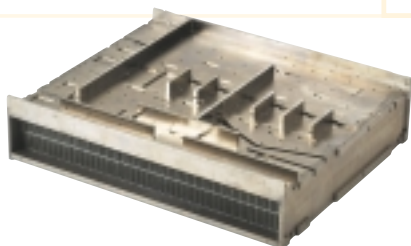


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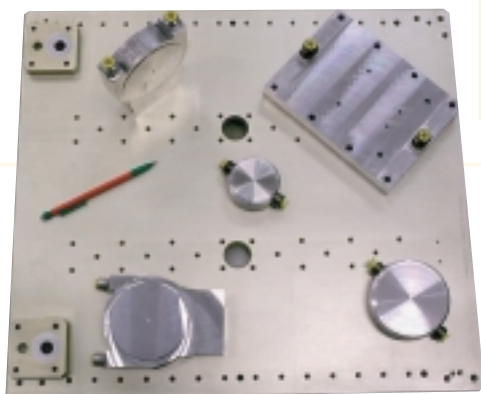
Fin forming (corrugated)
air heat sink



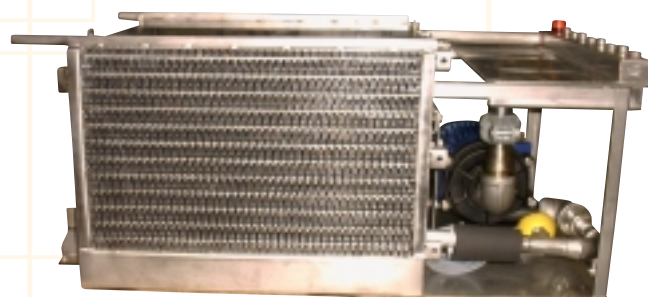
Heat pipes



Water cooled
heat sinks



Cooling unit groups



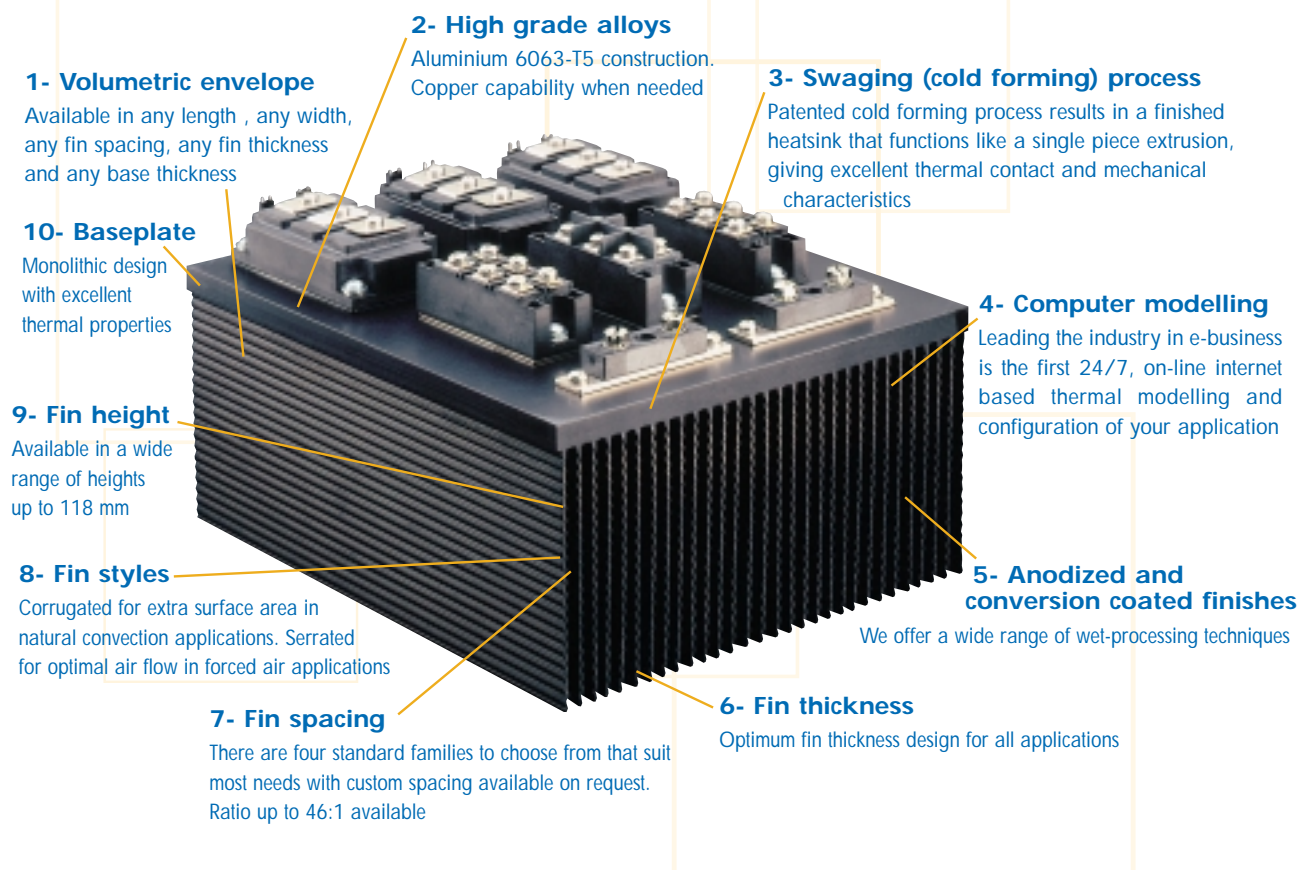
For more information,
please contact



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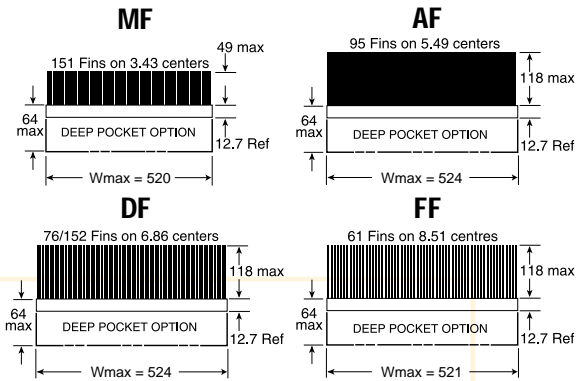
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GROUPE CARBONE LORRAINE

Heat sink configurator

Select the baseplate series

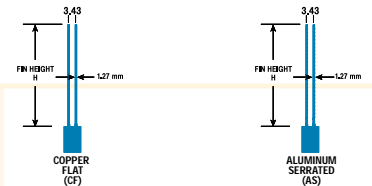
| Series | Fin pitch (CC) (Center to center) |
|--------|--------------------------------------|
| MF | 3.43 mm |
| AF | 5.49 mm |
| DF | 6.86 mm |
| FF | 8.51 mm |



Select the the type of fin

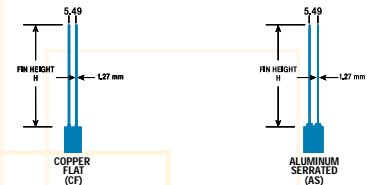
| Fin type | Fin height Max (H) | Ratio H to Space |
|--------------------|-----------------------|---------------------|
| Aluminium serrated | 49 mm | 20:1 |
| Copper flat | 49 mm | 23:1 |

MF Fin options



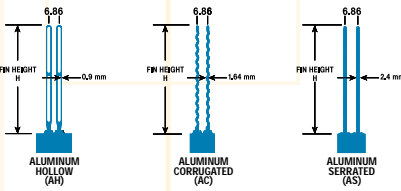
| Fin type | Fin height Max (H) | Ratio H to Space |
|--------------------|-----------------------|---------------------|
| Aluminium serrated | 119.5 mm | 27:1 |
| Copper flat | 119.5 mm | 28:1 |

AF Fin options



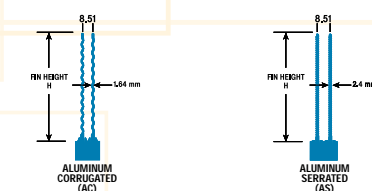
| Fin type | Fin height Max (H) | Ratio H to Space |
|--------------------|-----------------------|---------------------|
| Aluminium serrated | 119.4 mm | 22:1 |
| Copper flat | 119.4 mm | 26:1 |
| Aluminium hollow | 118 mm | 46:1 |

DF Fin options

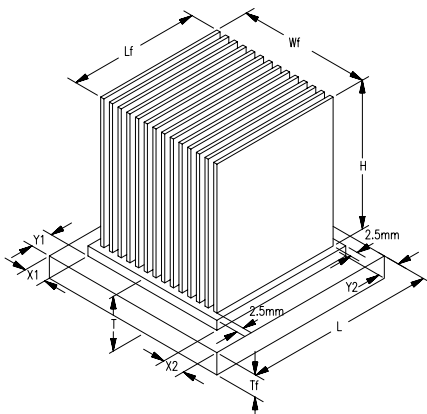


| Fin type | Fin height Max (H) | Ratio H to Space |
|----------------------|-----------------------|---------------------|
| Aluminium corrugated | 118 mm | 17:1 |
| Aluminium serrated | 119.5 mm | 19:1 |

FF Fin options



Give us your dimensions and your needs



| | |
|--|--|
| Power per semiconductor |W |
| Total power to be dissipated |W |
| Surface area of the component case(s) to be cooled |mm ² |
| Flow conditions: | <input type="radio"/> Natural convection |
| | <input type="radio"/> Forced air |
| Max pressure drop |m ³ /h |
| Ambient temperature |°C |
| Temperature max of the baseplate |°C |
| Thermal resistance |°C/kW |
| Cooling device material | <input type="radio"/> Aluminium <input type="radio"/> Copper |

We support your thermal needs

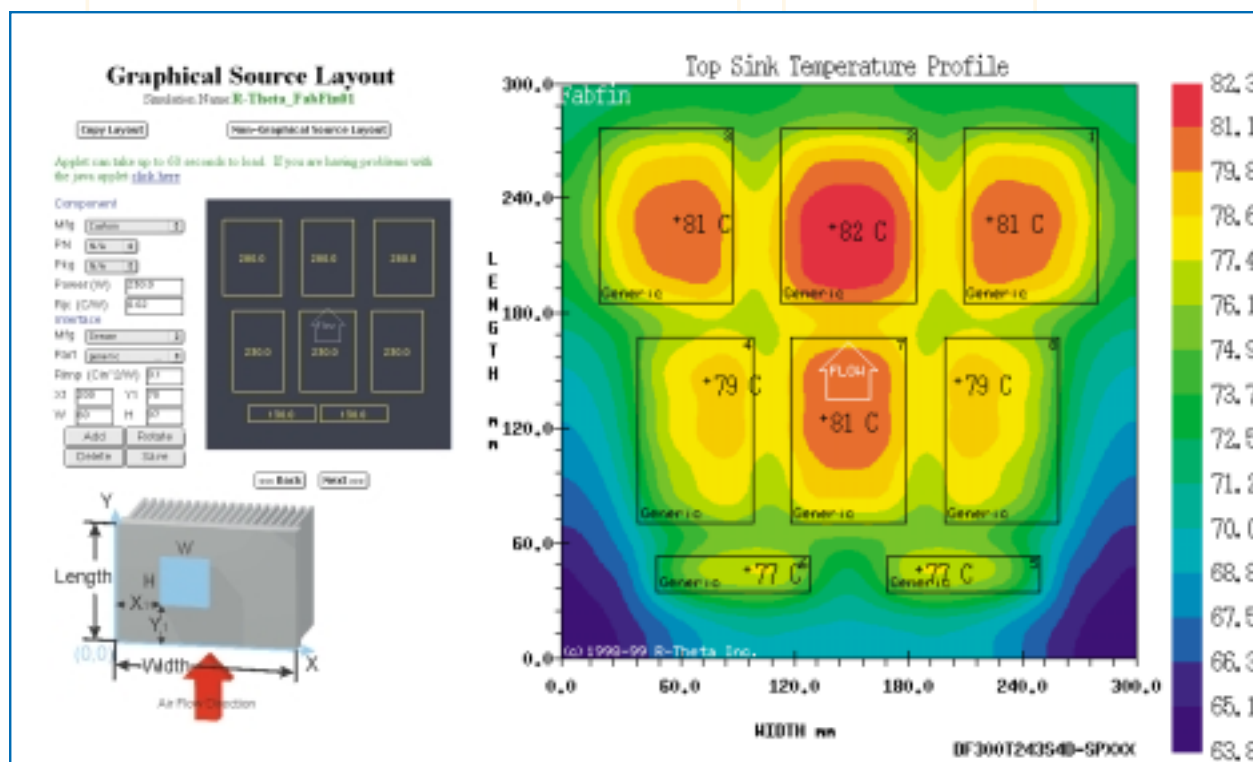
With flexible design

| Swaging process which allows | 4 types of baseplate with different fin pitch | 4 standard types of fins | Finish |
|--|---|--|--|
| <ul style="list-style-type: none"> to mix copper and aluminium all dimension as standard | <ul style="list-style-type: none"> 3.43 mm 5.49 mm 6.86 mm 8.51 mm <p>All available in copper or in aluminium</p> | <ul style="list-style-type: none"> Copper flat Aluminium serrated (2% exchange surface more than flat) Aluminium corrugated (7% exchange surface more than flat) Aluminium hollow (100% exchange surface more than flat) | <ul style="list-style-type: none"> Black anodize Gold chromate Degrease |

With simulation tools

Use the free on-line thermal simulation program R-TOOLS® on the website: www.r-theta.com

R-TOOLS® provides an analytical method for quickly and accurately testing of heat sink configuration



Or tell us about your application, we will offer you the best solution.