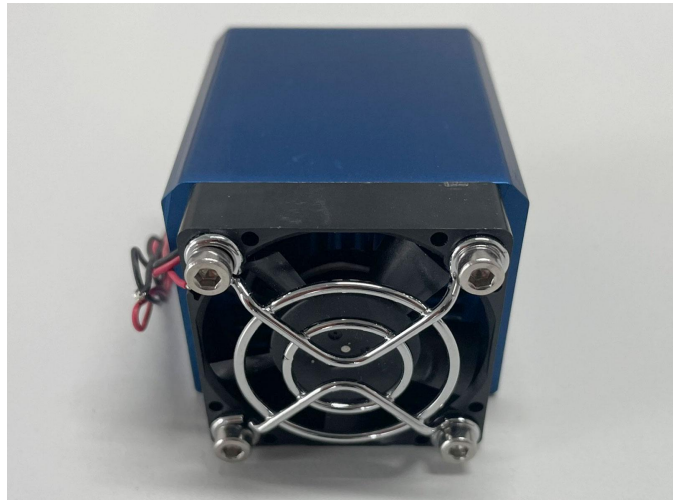


Product features PK

420-50-AL-D5V

Material	AlMgSi0,5
Width [mm]:	48.0
Height [mm]:	40.0
Length [mm]:	75.0
Min. thermal resistance [K/W]:	1.18
Unit Weight [g]:	0.19
Max. power loss [W]:	80.0



Further information

When natural convection is no longer sufficient for cooling temperature-sensitive electronic components, assemblies consisting of a conventional heat sink and a perfectly customised fan are usually used. The new miniature cooling system is based on the PR420 hollow profile which, despite its compact external dimensions of 40mm x 47.8mm, is characterised by solid side walls for good heat dissipation and a filigree ribbed structure on the inside for good heat exchange with the air flowing through it. This allows a maximum power loss of $P_V=90W$ to be dissipated with a minimum thermal resistance of $R_{th,KU}=1.04K/W$. The air is channelled through an integrated pressure chamber and the 'dead water', i.e. the area behind the fan hub, is compensated for. The cooling fins on the inside dissipate the heat absorbed and optimally distributed by the side walls in cooperation with the powerful axial fan in the intended direction. The side panels can be milled, drilled or provided with threaded holes according to customer requirements in order to securely and thermally optimise the electronic components, particularly those of the TO-218, TO-220, TO-247, TO-257, TO-264 and TO-267 designs. If necessary, a thermally conductive film with adhesive on one or both sides can also be applied. Of course, anodising is also possible in our in-house, fully automatic anodising plant.

