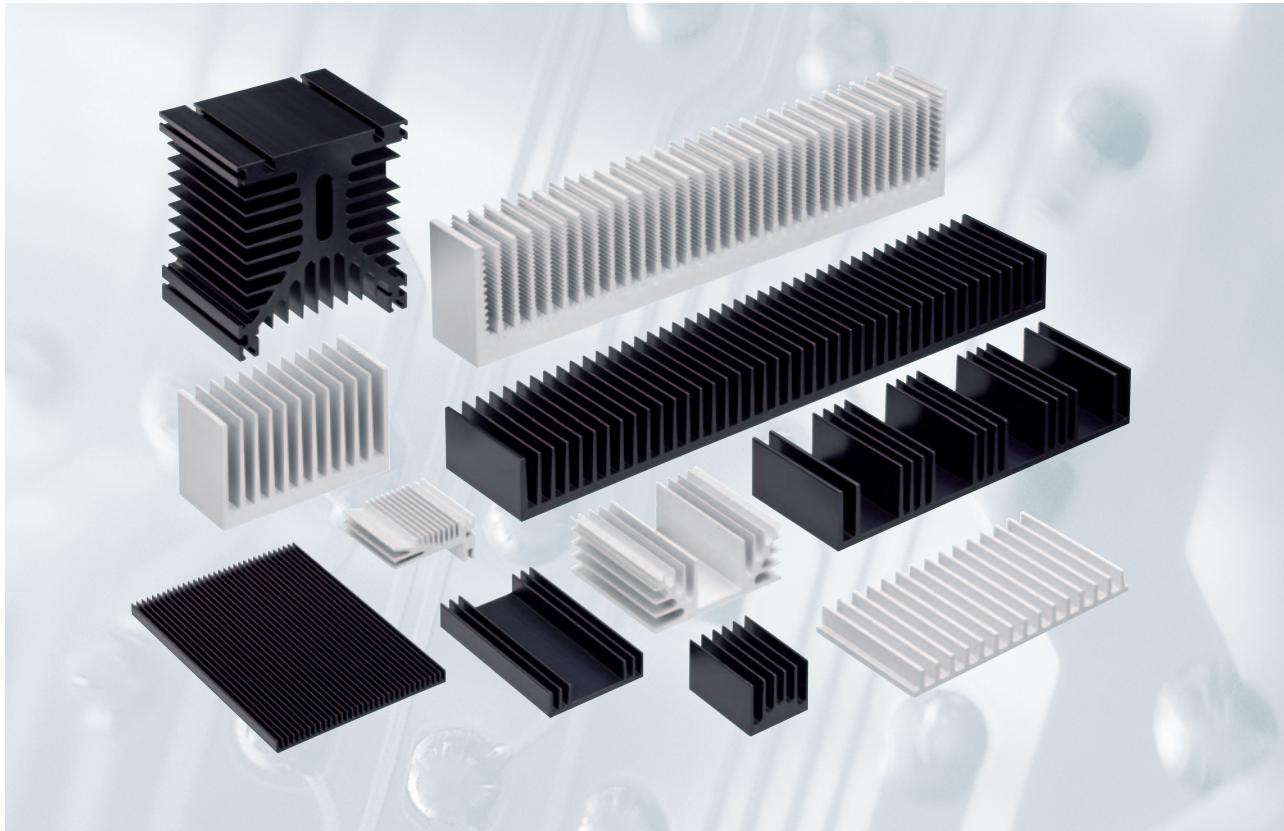


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Standard-Profilkühlkörper

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Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Standardausführungen, Toleranzen und Hinweise für Profil-Kühlkörper

Standardlängen für Profil-Kühlkörper:

37,5	mm
50	mm
75	mm
100	mm
150	mm
1.000	mm (Meterstücke)

Neben den größtenteils lagermäßig verfügbaren Standardlängen sind selbstverständlich alle Sonderlängen ohne besonderen Aufpreis lieferbar.

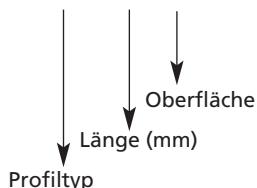
Standardoberflächen für Profil-Kühlkörper:

- AL = Aluminium blank, unveredelt
SE = schwarz eloxiert (technisch)
NE = naturfarben eloxiert (technisch)
CR = naturfarben chromatiert (Chrom6-frei, RoHS-konform)
(Die Chromatierung bietet einen wirksamen Oberflächenschutz bei unveränderter elektrischer und thermischer Leitfähigkeit.)

Andere Oberflächen wie farbige Eloxierung, Lackierung oder nur teilweise Oberflächenveredelung auf Anfrage.
Bei Oberflächenbehandlung (eloxieren, chromatieren etc.) entstehen durch Aufnahme in entsprechenden Gestellen unvermeidbare Klammer- bzw. Kontaktstellen.

Im Falle applikationsbedingter Einschränkungen ist evtl. eine Abstimmung über die Positionierung von Klammerstellen erforderlich.

Bestellbeispiel: PR 170 / 50 / SE



Presstoleranzen für Strangpressprofile:

DIN 1748 – Teil 4 bzw. DIN 17615 – Teil 3, DIN ISO 755 – 9 bzw. DIN ISO 12020 -2

Andere Toleranzen auf Anfrage.

Bearbeitungstoleranzen für Strangpressprofile:

DIN 2768 m

Andere Toleranzen auf Anfrage.

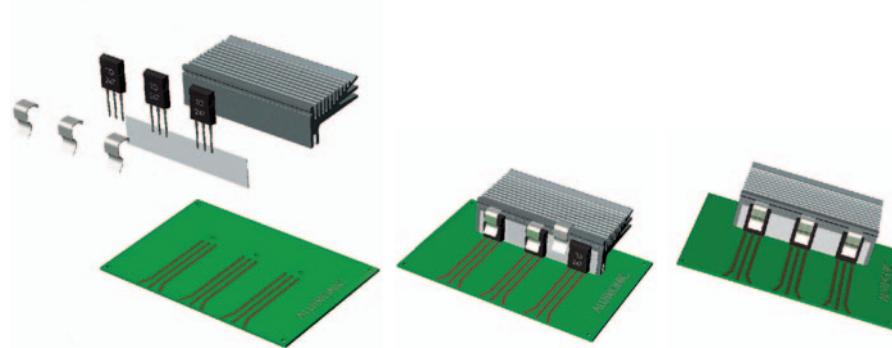
Weitere Hinweise und Erläuterungen siehe auch **Technische Informationen rund um den Kühlkörper, Seite 106 - 107**

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

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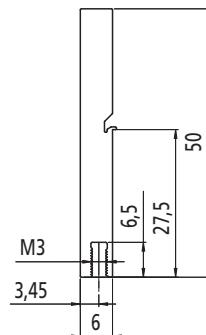
für Clip-Montage mit den Clip-Typen: MC 725, MC 726, MC 773, MC 797 (siehe Seite 98 - 99 – Zubehör)

Technische Informationen (Toleranzen, etc.) auf Seite 38

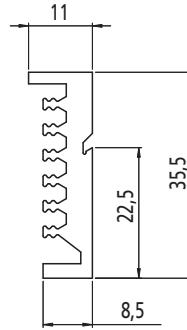
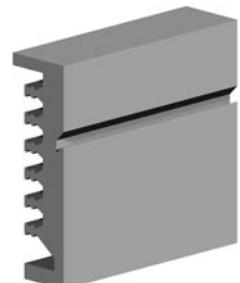
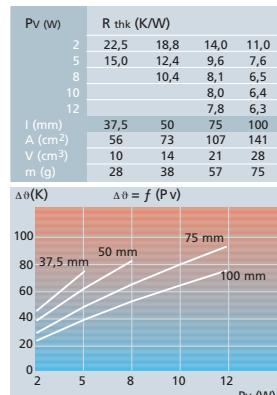


Vorteile der Clip-Befestigung des Halbleiters auf dem Kühlkörper:

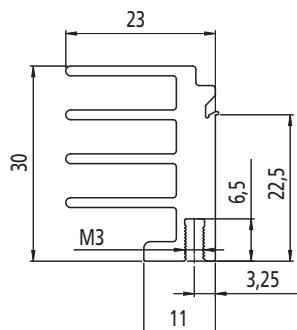
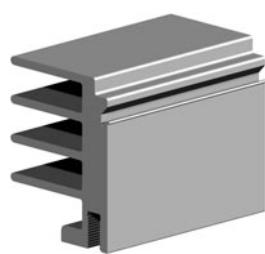
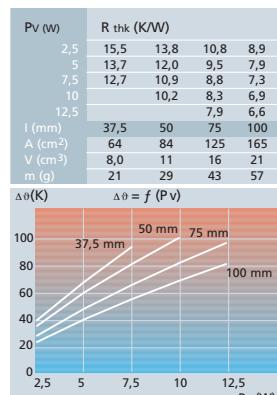
- Vereinfachte Isolierung (ohne Schraube, Isolierbuchse)
- Zentraler Anpressdruck (Wärmeübergang)
- Wirtschaftliche Montage



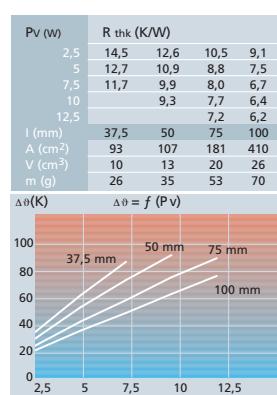
Type PR 101



Type PR 121



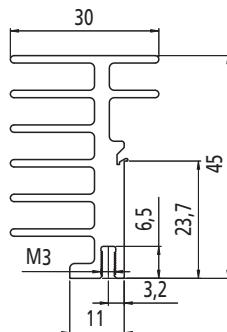
Type PR 290



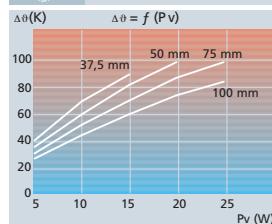
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

für Clip-Montage mit den Clip-Typen: MC 725, MC 726, MC 773, MC 797 (siehe Seite 98 - 99 – Zubehör)

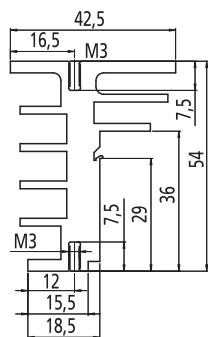
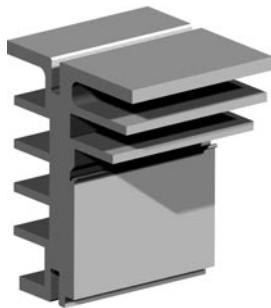
Technische Informationen (Toleranzen, etc.) auf Seite 38



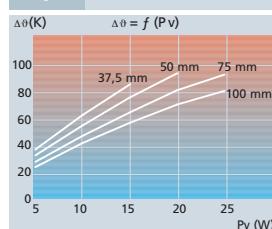
Pv (W)	R thk (K/W)			
5	8,0	7,0	6,0	5,2
10	7,0	6,0	5,2	4,4
15	6,3	5,5	4,7	4,0
20	5,0	4,4	3,7	
25		4,0	3,4	
I (mm)	37,5	50	75	100
A (cm²)	140	184	273	361
V (cm³)	15	20	29	39
m (g)	40	53	80	106



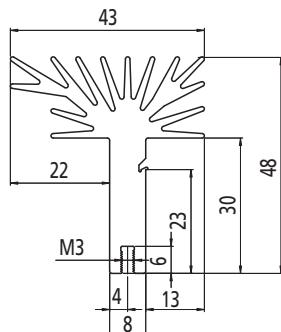
Type PR 127



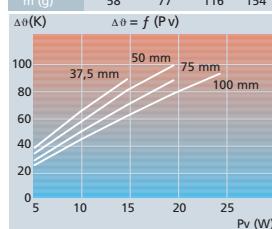
Pv (W)	R thk (K/W)			
5	7,5	6,6	5,6	4,8
10	6,4	5,6	4,8	4,3
15	5,8	5,2	4,4	3,9
20	4,8	4,2	3,6	
25		3,8	3,3	
I (mm)	37,5	50	75	100
A (cm²)	175	229	336	443
V (cm³)	27	36	54	72
m (g)	73	98	147	195



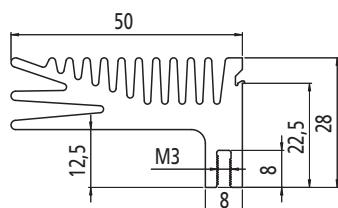
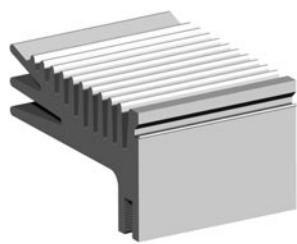
Type PR 119



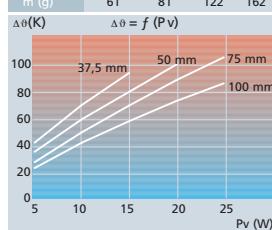
Pv (W)	R thk (K/W)			
5	7,8	7,0	5,9	5,2
10	6,7	5,9	5,2	4,6
15	6,1	5,6	4,8	4,2
20	5,1	4,6	4,0	
25		3,8	3,3	
I (mm)	37,5	50	75	100
A (cm²)	159	209	310	410
V (cm³)	22	29	43	57
m (g)	58	77	116	154



Type PR 292



Pv (W)	R thk (K/W)			
5	8,4	7,0	5,5	4,5
10	7,1	6,0	5,0	4,2
15	6,3	5,4	4,7	3,9
20	5,1	4,5	3,7	
25		4,3	3,5	
I (mm)	37,5	50	75	100
A (cm²)	146	191	281	370
V (cm³)	23	30	45	60
m (g)	61	81	122	162



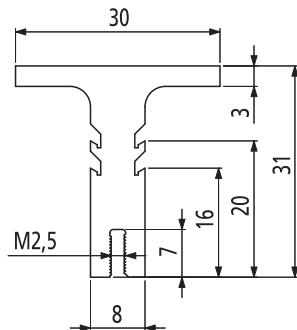
Type PR 233

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

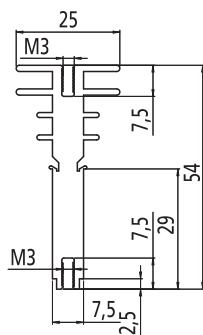
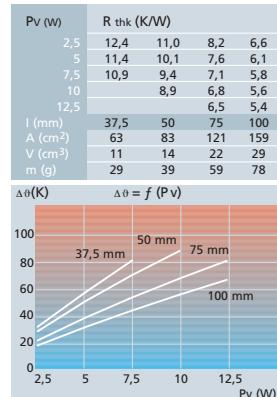
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für Clip-Montage mit den Clip-Typen: MC 725, MC 726, MC 773, MC 797 (siehe Seite 98 - 99 – Zubehör)

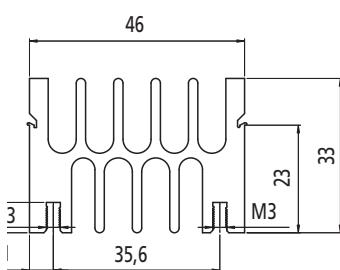
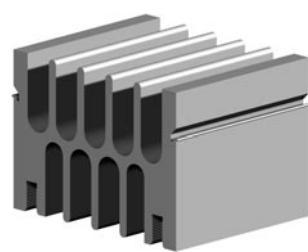
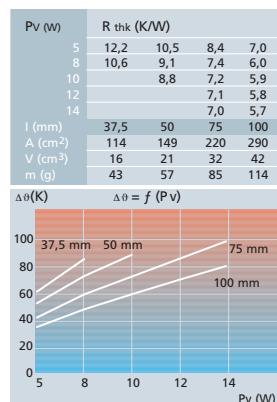
Technische Informationen (Toleranzen, etc.) auf Seite 38



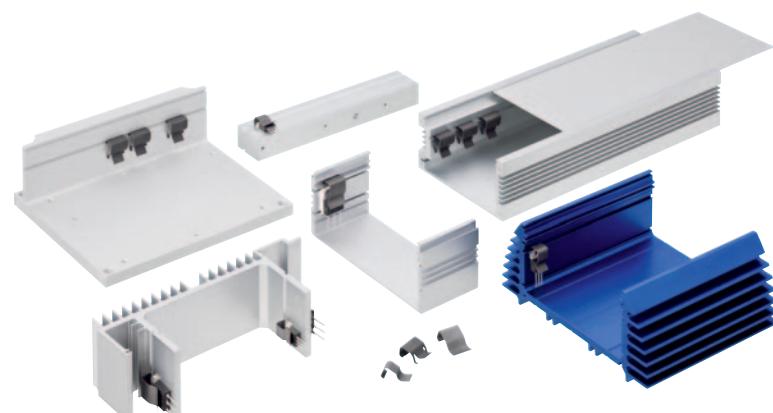
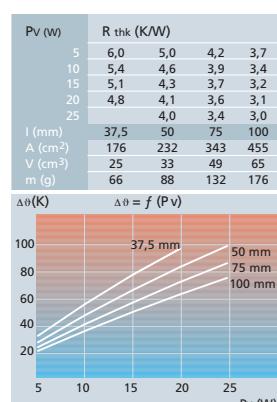
Type PR 116



Type PR 118



Type PR 293



Konstruktive, thermische und wirtschaftliche Optimierung wird immer häufiger durch Einrichtung eines entsprechenden Spezialprofiles erreicht.

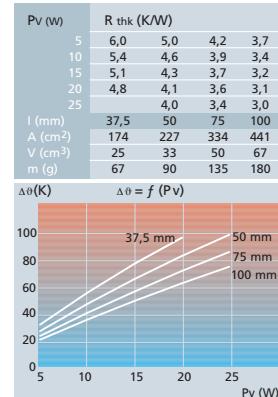
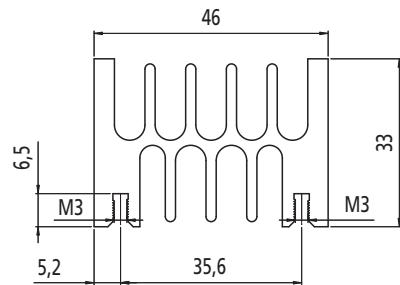
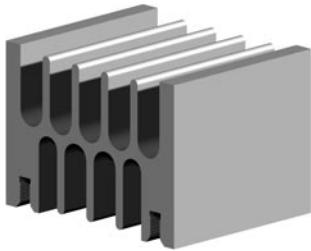
Auch hierbei ist die Clip-Nut zur Vereinfachung der Halbleiter-Montage oft eine technisch interessante Alternative.

Fragen Sie an, wir beraten Sie gern!

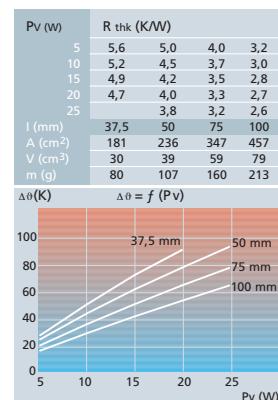
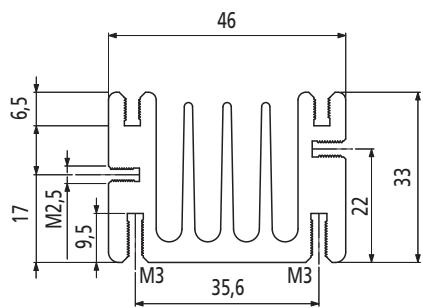
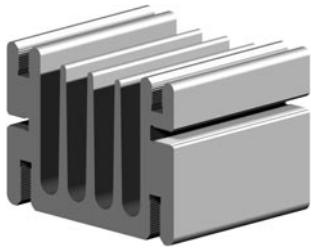
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

für Schraub- und Clipmontage

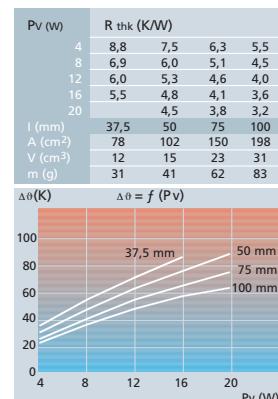
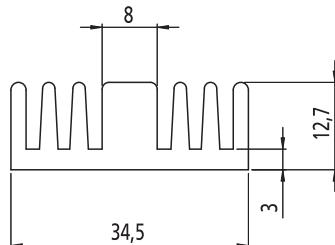
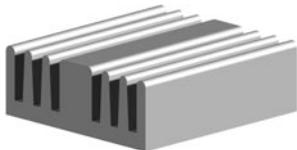
Technische Informationen (Toleranzen, etc.) auf Seite 38



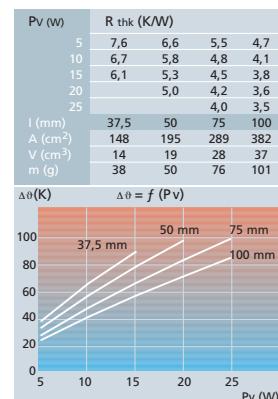
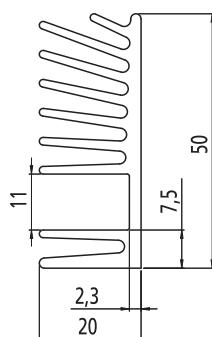
Type PR 137



Type PR 138



Type PR 36



Type PR 139

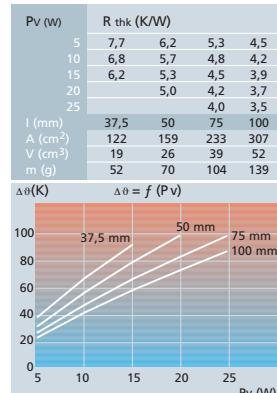
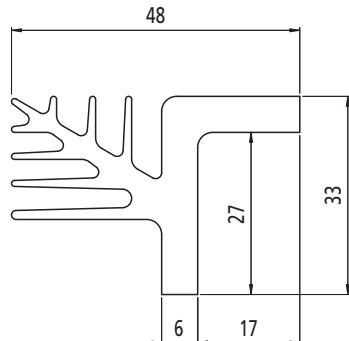
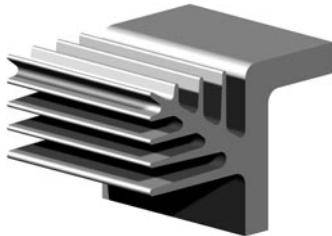
Clip-Typen: MC 780, MC 782, MC 786 (Seite 99 - Zubehör)

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

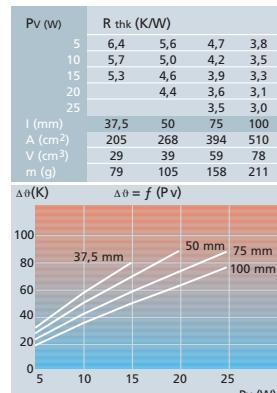
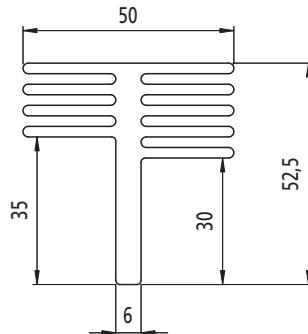
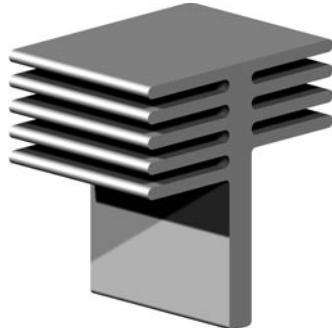
für Schraubmontage

Technische Informationen (Toleranzen, etc.) auf Seite 38

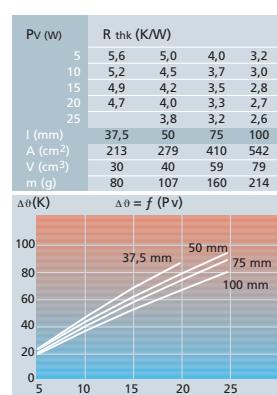
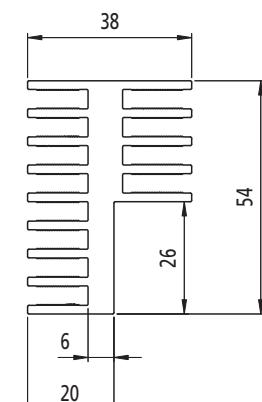
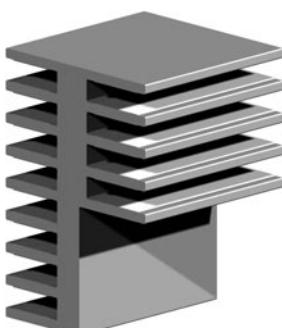
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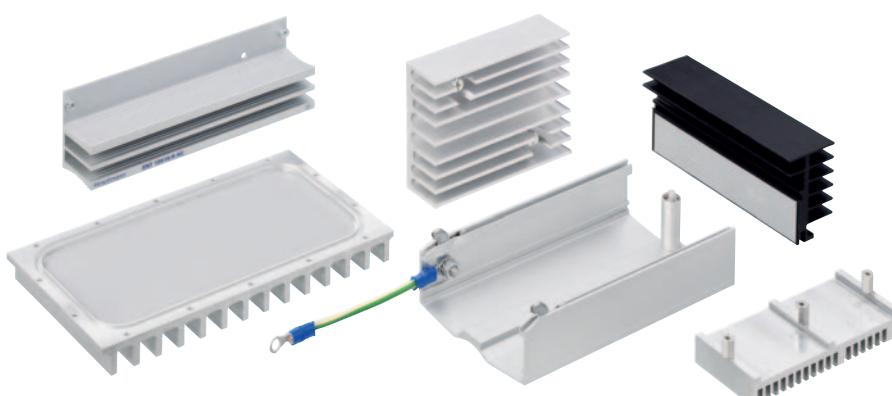
Type PR 143



Type PR 268



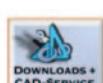
Type PR 136



Einbaufertige Lieferung, einschließlich kompletter Bearbeitung und Oberflächen-Veredelung nach Ihren Wünschen, ist eine unserer Hauptkompetenzen.

Auf Wunsch führen wir auch gerne Teilkonfektionierung z.B. von Isolierfolien, Befestigungsteilen usw. für Sie durch.

Fragen Sie an, wir beraten Sie gern!



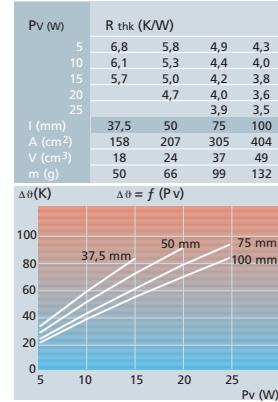
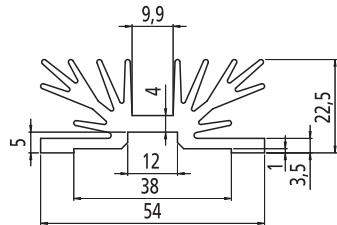
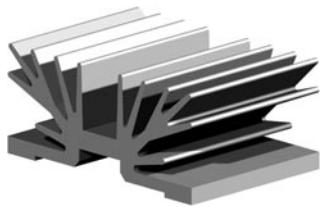
www.alutronic.de



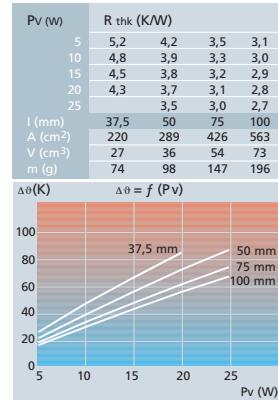
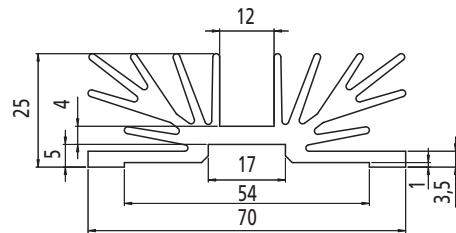
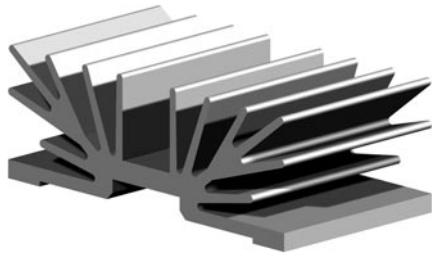
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

für Schraubmontage

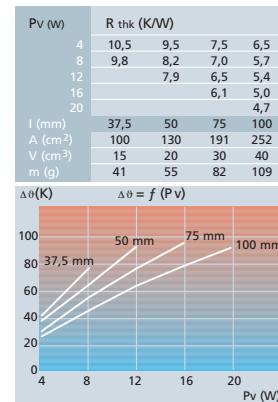
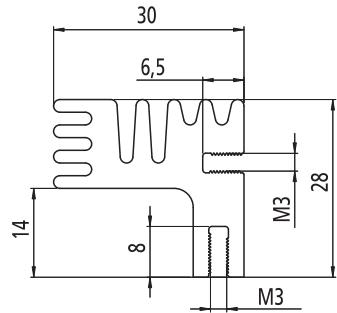
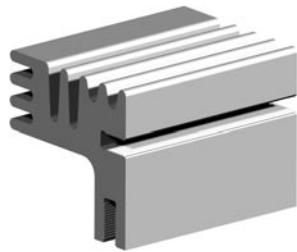
Technische Informationen (Toleranzen, etc.) auf Seite 38



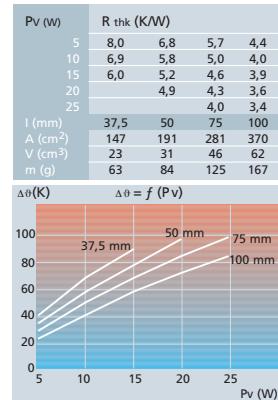
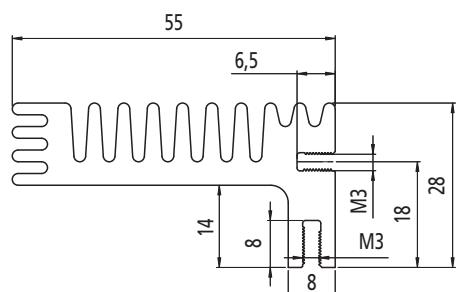
Type PR 134



Type PR 135



Type PR 234



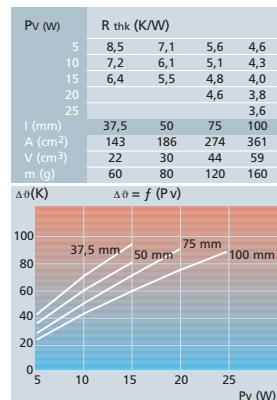
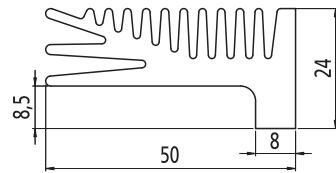
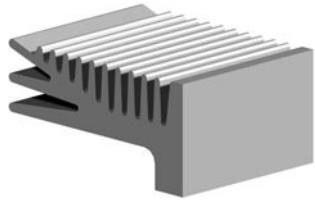
Type PR 126

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

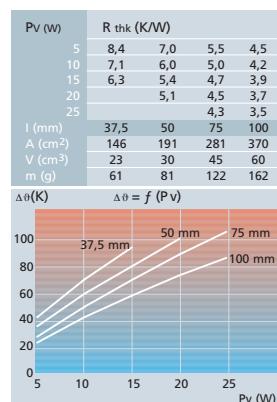
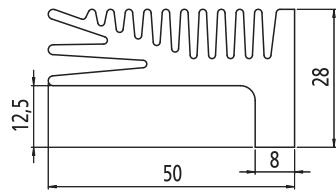
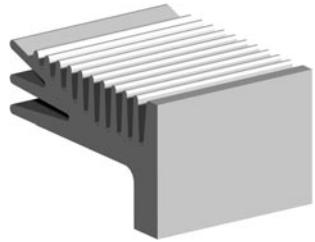
für Schraubmontage

Technische Informationen (Toleranzen, etc.) auf Seite 38

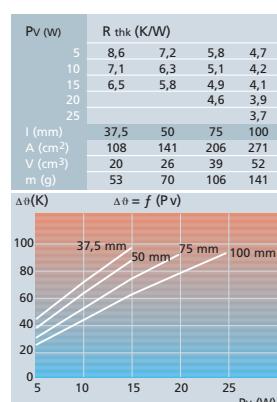
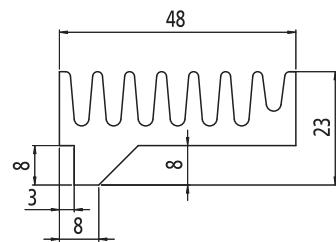
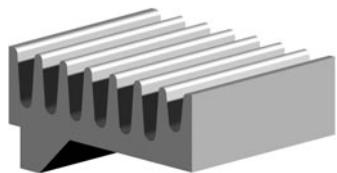
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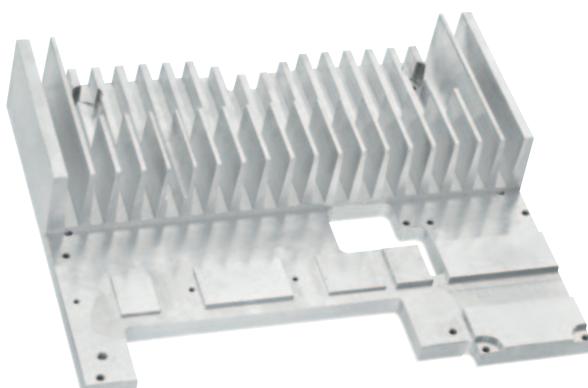
Type PR 144



Type PR 133



Type PR 132



Bearbeitungsbeispiel



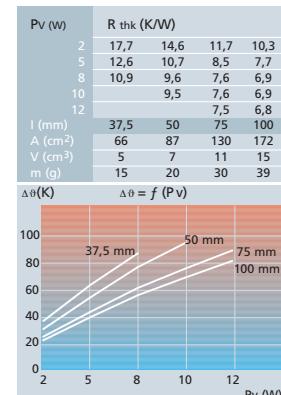
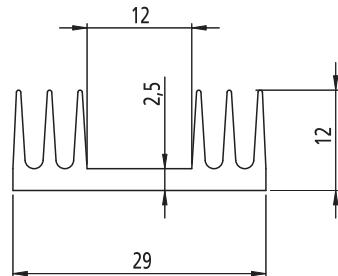
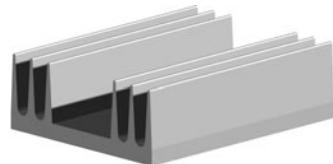
www.alutronic.de



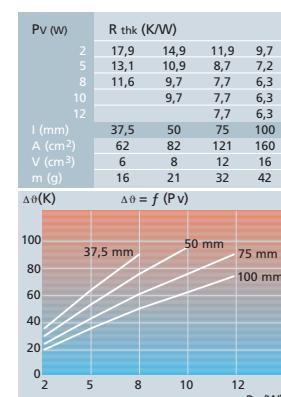
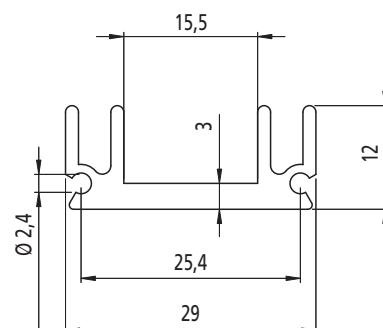
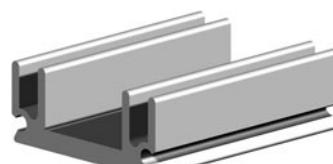
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

mit versenkter Montagefläche

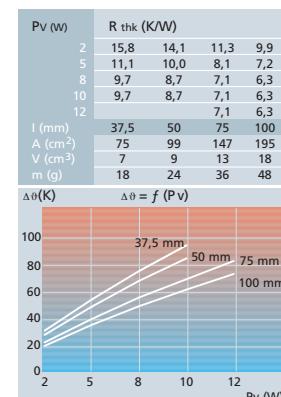
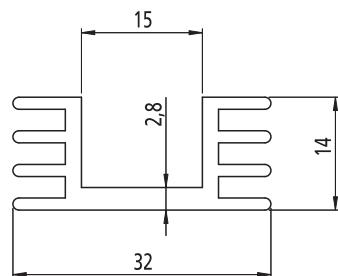
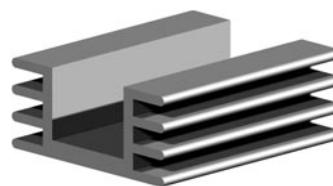
Technische Informationen (Toleranzen, etc.) auf Seite 38



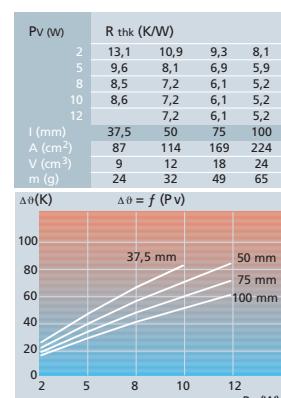
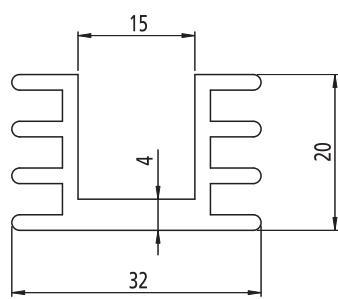
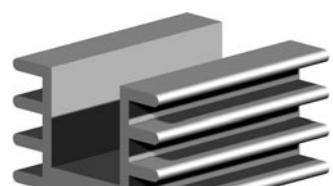
Type PR 20



Type PR 23



Type PR 27



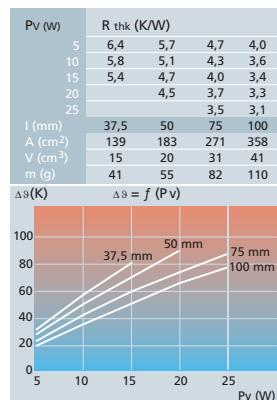
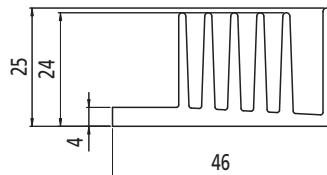
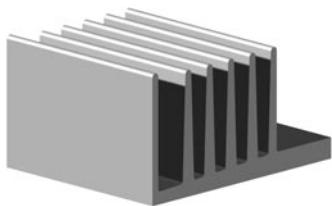
Type PR 25

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

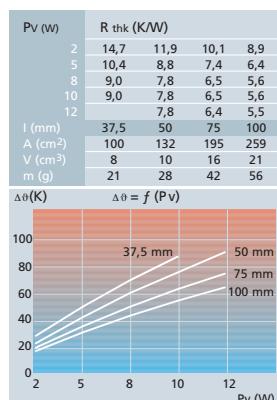
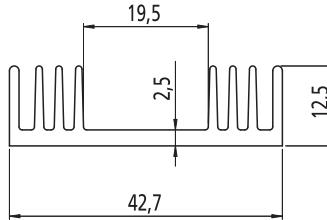
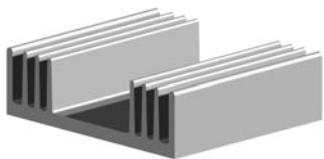
mit versenkter Montagefläche

Technische Informationen (Toleranzen, etc.) auf Seite 38

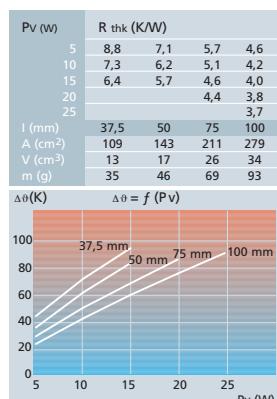
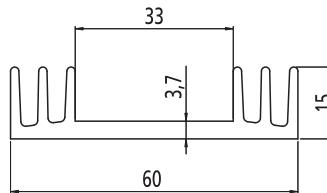
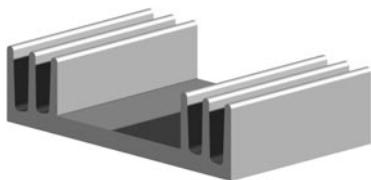
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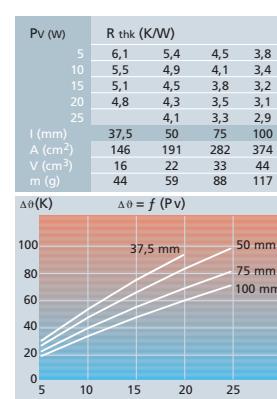
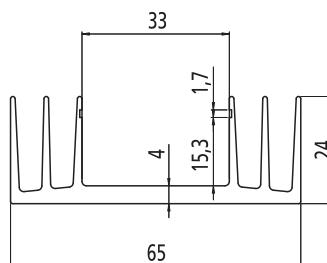
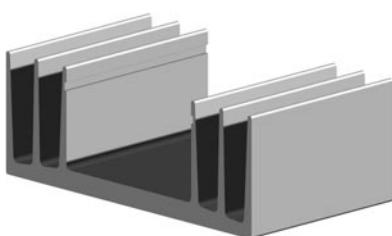
Type PR 113



Type PR 22



Type PR 35



Type PR 40



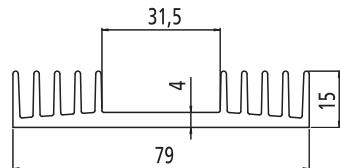
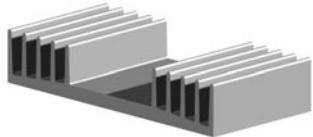
www.alutronic.de



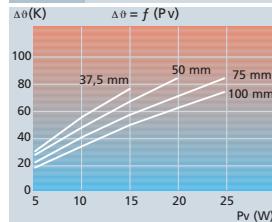
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

mit versenker Montagefläche

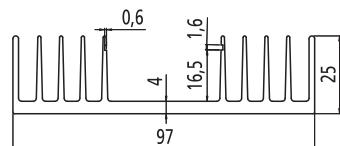
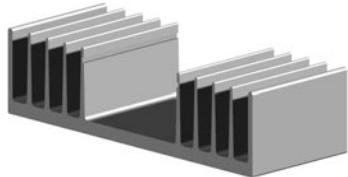
Technische Informationen (Toleranzen, etc.) auf Seite 38



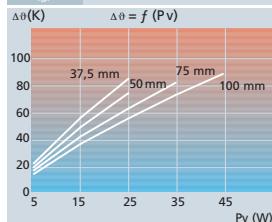
Pv (W)	R_thk (K/W)			
5	6,5	5,9	4,8	4,0
10	5,9	5,1	4,3	3,6
15	5,3	4,7	4,0	3,5
20		4,4	3,7	3,3
25			3,5	3,1
I (mm)	37,5	50	75	100
A (cm ²)	159	208	308	407
V (cm ³)	18	24	36	47
m (g)	48	64	96	128



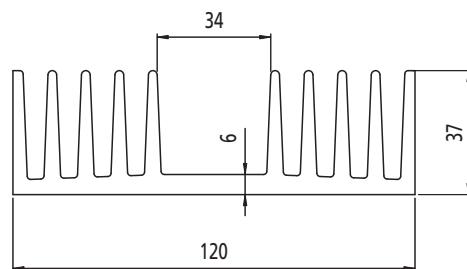
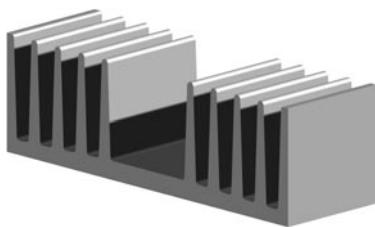
Type PR 65



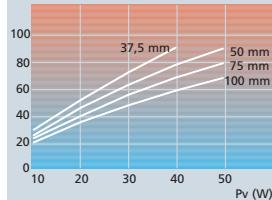
Pv (W)	R_thk (K/W)			
5	4,6	4,0	3,5	2,9
15	3,9	3,4	2,9	2,5
25	3,5	3,1	2,6	2,3
35			2,4	2,1
45				2,0
I (mm)	37,5	50	75	100
A (cm ²)	246	324	478	633
V (cm ³)	27	37	55	73
m (g)	74	99	148	198



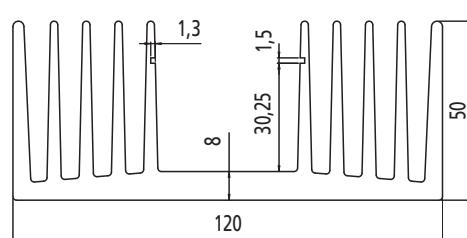
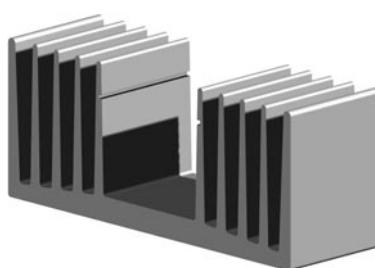
Type PR 90



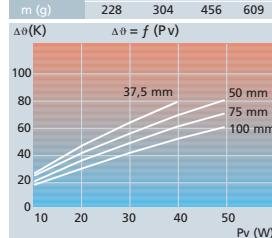
Pv (W)	R_thk (K/W)			
10	2,9	2,5	2,2	1,9
20	2,6	2,3	2,0	1,7
30	2,4	2,1	1,9	1,6
40	2,3	2,0	1,7	1,5
50		1,8	1,6	1,4
I (mm)	37,5	50	75	100
A (cm ²)	363	472	690	908
V (cm ³)	68	91	136	182
m (g)	184	246	368	491



Type PR 93



Pv (W)	R_thk (K/W)			
10	2,6	2,4	2,0	1,7
20	2,3	2,1	1,8	1,5
30	2,1	1,9	1,6	1,4
40	2,0	1,7	1,5	1,3
50		1,6	1,4	1,2
I (mm)	37,5	50	75	100
A (cm ²)	467	608	890	1171
V (cm ³)	85	113	169	225
m (g)	228	304	456	609



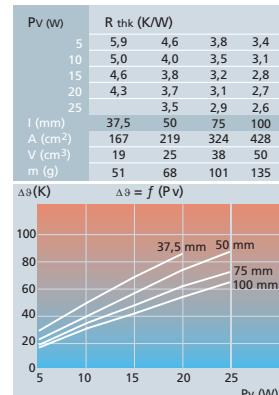
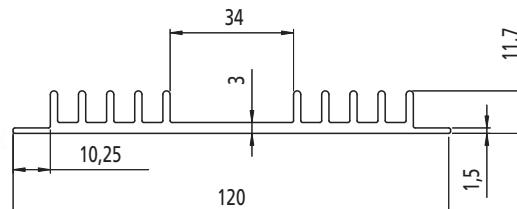
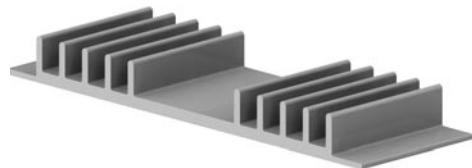
Type PR 95

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

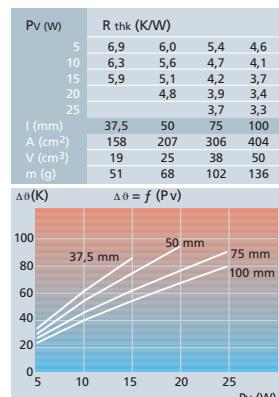
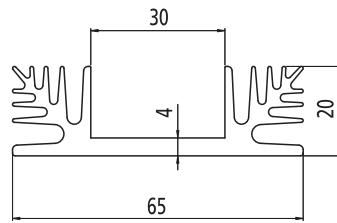
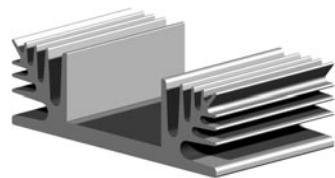
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mit versenkter Montagefläche

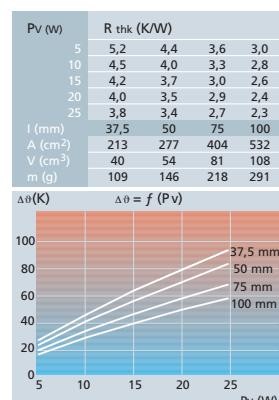
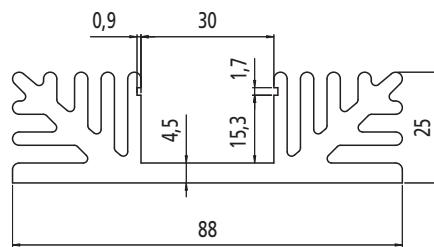
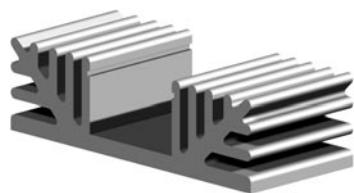
Technische Informationen (Toleranzen, etc.) auf Seite 38



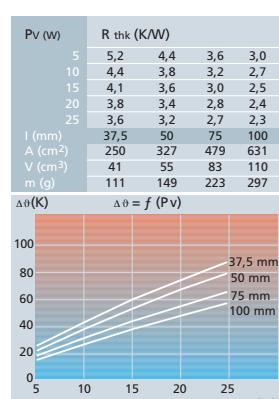
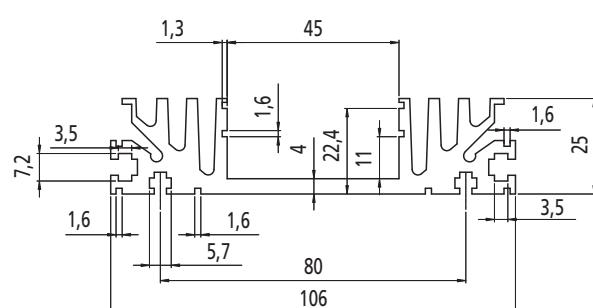
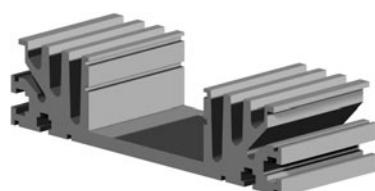
Type PR 100



Type PR 125



Type PR 128



Type PR 129



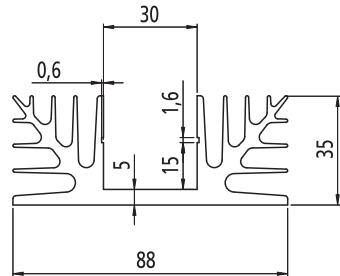
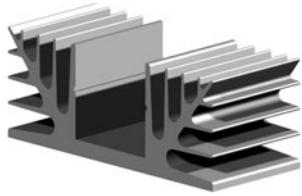
www.alutronic.de



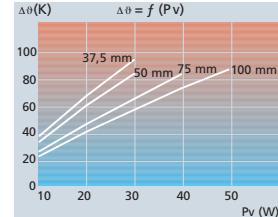
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

mit versenkter Montagefläche

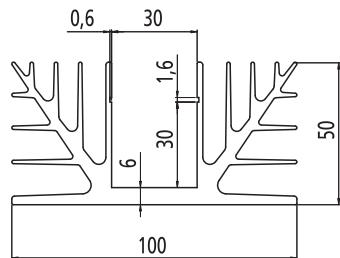
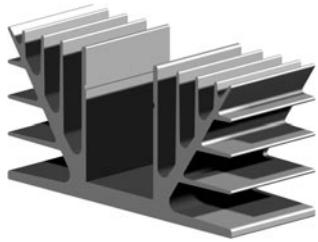
Technische Informationen (Toleranzen, etc.) auf Seite 38



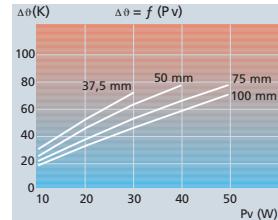
Pv (W)	R thk (K/W)			
10	3,89	3,44	2,71	2,34
20	3,49	3,12	2,40	2,11
30	3,24	2,88	2,24	1,96
40			2,15	1,88
50				1,80
I (mm)	37,5	50	75	100
A (cm²)	255	334	490	646
V (cm³)	39	53	79	105
m (g)	106	142	213	284



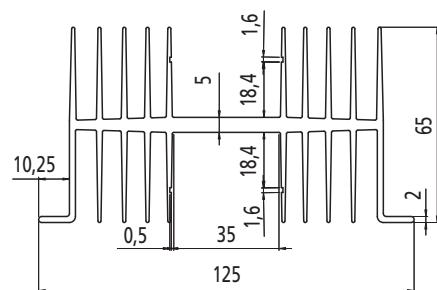
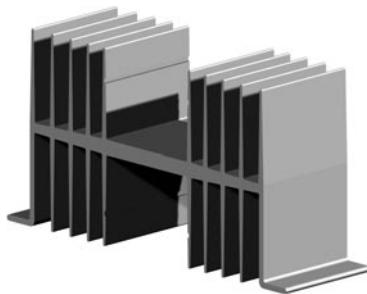
Type PR 130



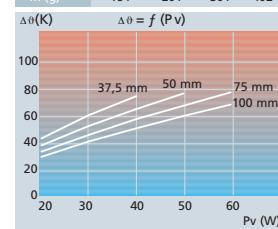
Pv (W)	R thk (K/W)			
10	3,08	2,54	2,16	1,82
20	2,68	2,34	1,91	1,66
30	2,46	2,16	1,80	1,56
40		1,98	1,69	1,49
50			1,59	1,45
I (mm)	37,5	50	75	100
A (cm²)	370	484	712	940
V (cm³)	54	71	107	143
m (g)	145	193	289	386



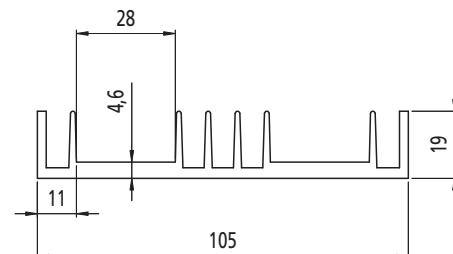
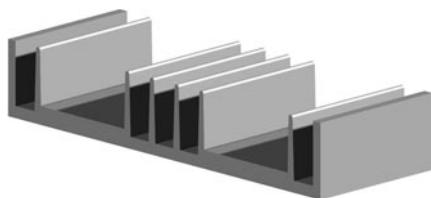
Type PR 131



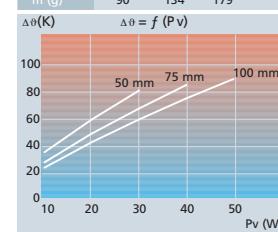
Pv (W)	R thk (K/W)			
20	2,19	1,92	1,68	1,48
30	2,04	1,78	1,55	1,38
40	1,90	1,65	1,46	1,29
50		1,56	1,38	1,22
60			1,32	1,16
I (mm)	37,5	50	75	100
A (cm²)	575	756	1.120	1.483
V (cm³)	56	74	112	149
m (g)	151	201	301	402



Type PR 192



Pv (W)	R thk (K/W)			
10	3,61	2,83	2,42	
20	3,06	2,52	2,19	
30	2,78	2,32	2,04	
40		2,19	1,94	
50			1,85	
I (mm)	50	75	100	
A (cm²)	246	362	478	
V (cm³)	33	50	66	
m (g)	90	134	179	



Type PR 140

Sonder-Profilkühlkörper aus AlMgSi 0,5 F 22

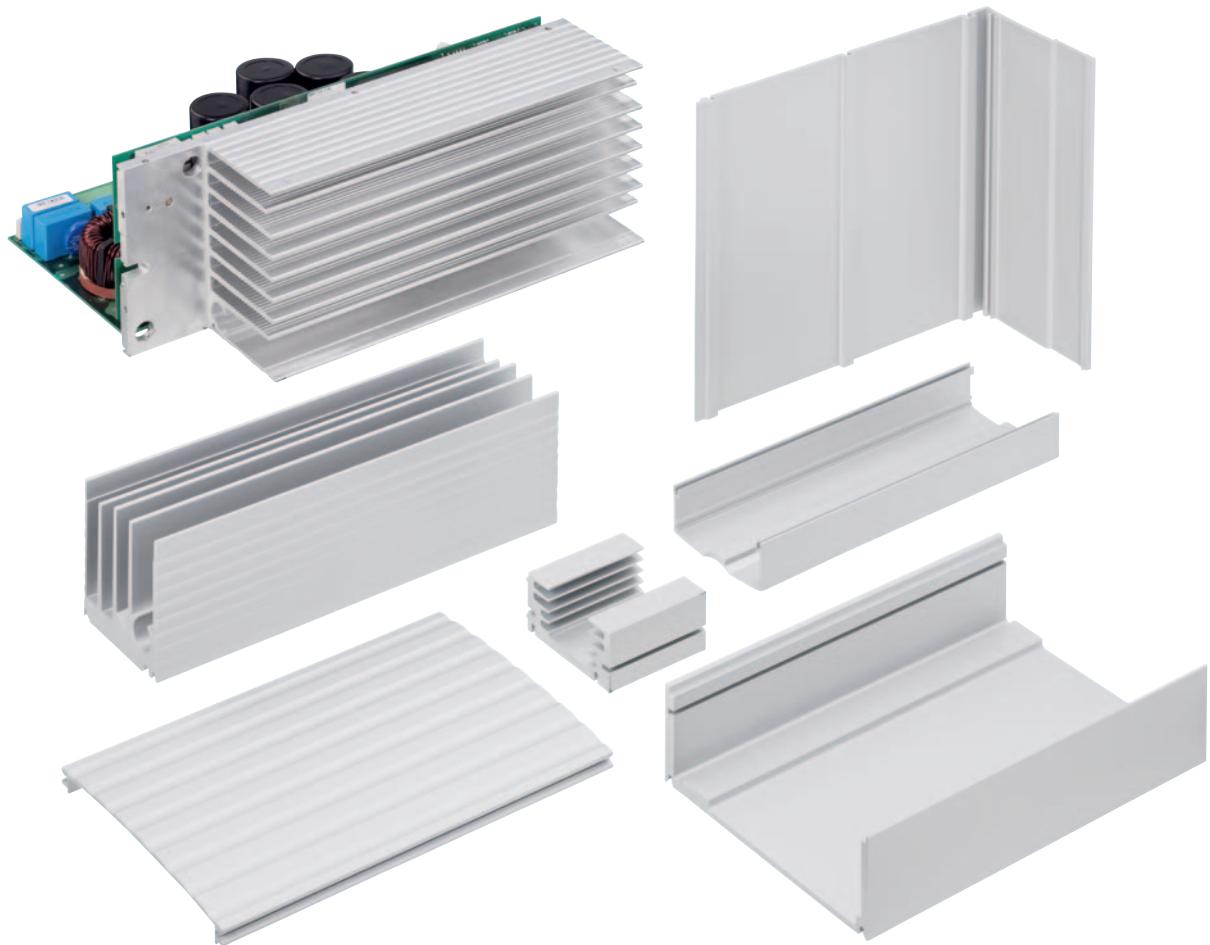
Technische Informationen (Toleranzen, etc.) auf Seite 38

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Zur konstruktiven, thermischen und wirtschaftlichen Optimierung bietet sich häufig die Einrichtung eines entsprechenden Spezialprofiles an.

Schon bei mittleren Stückzahlen amortisiert sich dies oft sehr schnell und bietet in der Regel zudem meist noch Möglichkeiten für Zusatzfunktionen.

Fragen Sie an, wir beraten Sie gern!



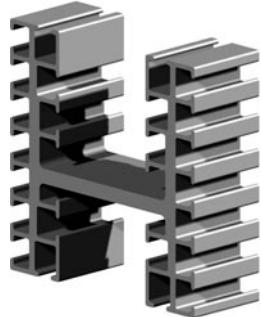
www.alutronic.de



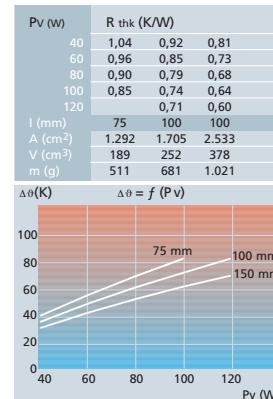
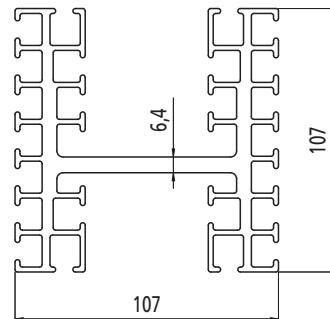
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Verschiedene Bauarten (diverse)

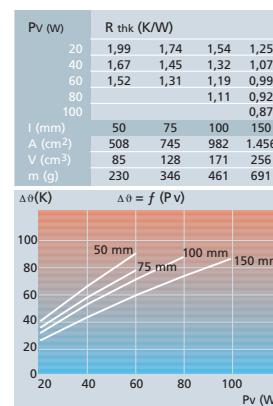
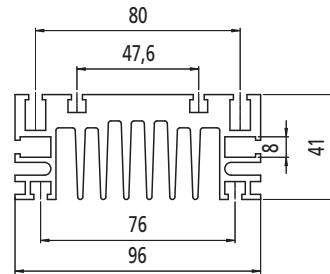
Technische Informationen (Toleranzen, etc.) auf Seite 38



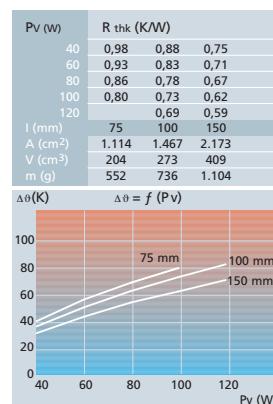
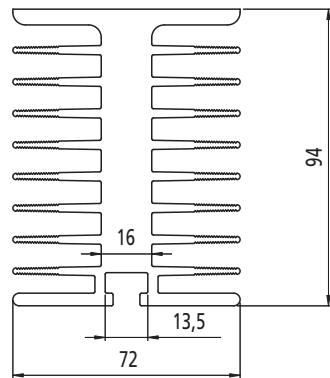
Type PR 210



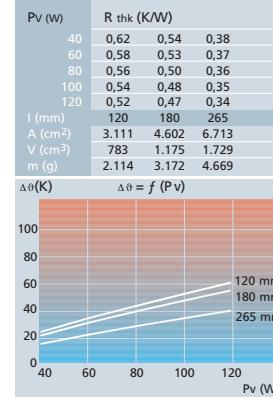
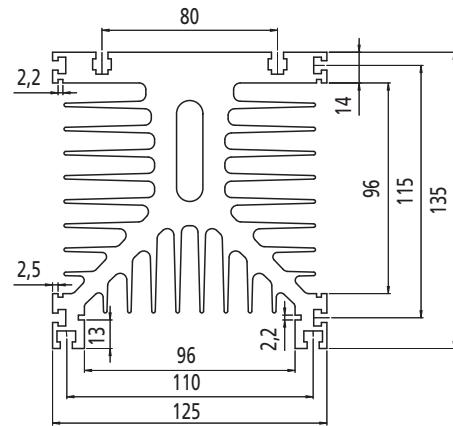
Type PR 221



Type PR 227



Type PR 223

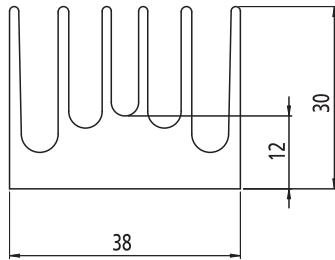
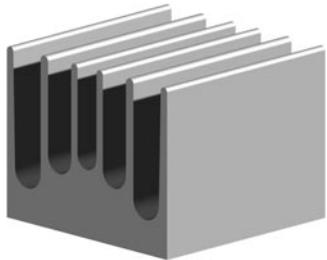


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

ALUTRONIC
Solutions for cool results

Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

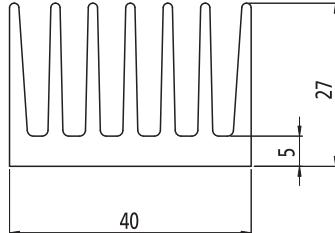


Pv (W)	R thk (K/W)			
5	6,5	5,4	4,5	3,8
10	5,8	4,9	4,1	3,5
15	5,4	4,6	3,9	3,3
20		4,4	3,7	3,1
25			3,5	3,0
I (mm)	37,5	50	75	100
A (cm ²)	138	180	264	349
V (cm ³)	20	27	41	54
m (g)	55	73	110	146

Δθ(K)	Δθ = f (Pv)
100	37,5 mm 50 mm 75 mm 100 mm
80	
60	
40	
20	

5 10 15 20 25 Pv (W)

Type PR 146

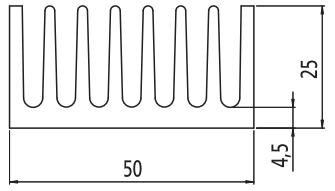
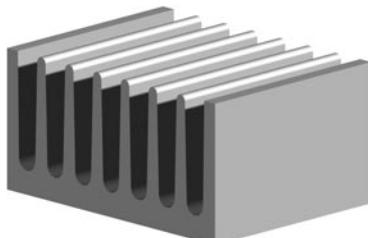


Pv (W)	R thk (K/W)			
5	6,3	5,2	4,4	3,7
10	5,6	4,8	4,0	3,4
15	5,2	4,5	3,8	3,2
20		4,3	3,6	3,0
25			3,4	2,9
I (mm)	37,5	50	75	100
A (cm ²)	160	209	309	408
V (cm ³)	19	26	39	52
m (g)	52	70	105	140

Δθ(K)	Δθ = f (Pv)
100	37,5 mm 50 mm 75 mm 100 mm
80	
60	
40	
20	

5 10 15 20 25 Pv (W)

Type PR 313

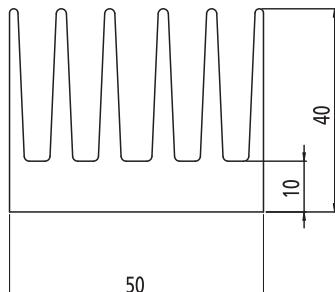
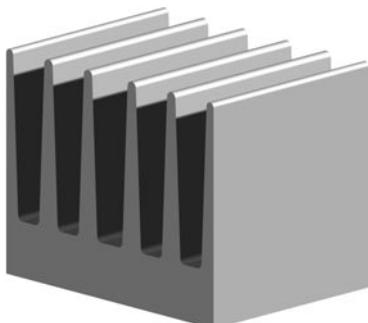


Pv (W)	R thk (K/W)			
5	6,4	4,7	3,9	
15	5,1	3,6	3,0	
25		3,3	2,8	
35			2,6	
I (mm)	50	75	100	
A (cm ²)	222	326	430	
V (cm ³)	32	48	64	
m (g)	87	131	174	

Δθ(K)	Δθ = f (Pv)
100	50 mm 75 mm 100 mm
80	
60	
40	
20	

0 5 15 25 35 Pv (W)

Type PR 312



Pv (W)	R thk (K/W)			
10	3,60	2,70	2,20	
20	3,40	2,45	1,90	
30	3,27	2,26	1,83	
40		2,12	1,71	
50		2,00	1,56	
I (mm)	50	100	150	
A (cm ²)	186	351	516	
V (cm ³)	52	104	155	
m (g)	140	280	420	

Δθ(K)	Δθ = f (Pv)
100	50 mm 100 mm
80	
60	
40	
20	

0 10 20 30 40 50 Pv (W)

Type PR 289



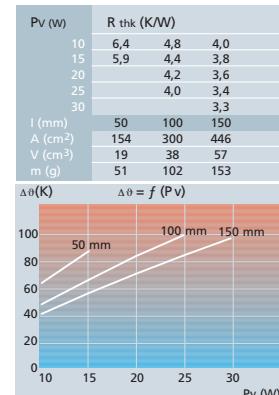
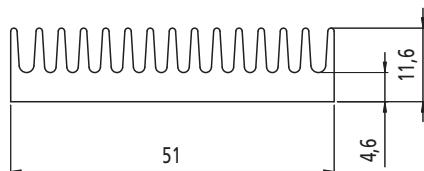
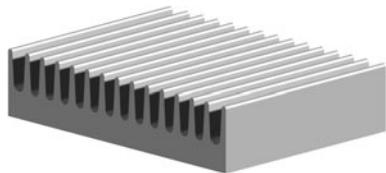
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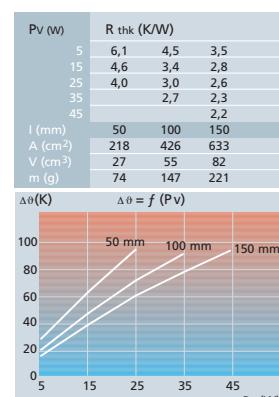
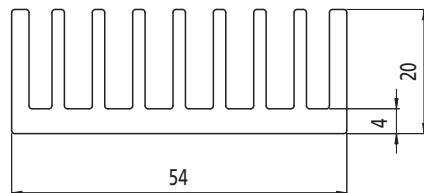
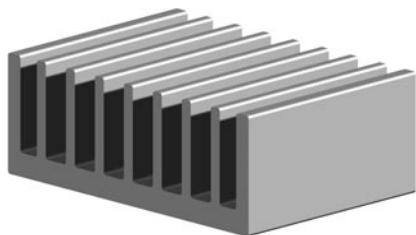
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile)

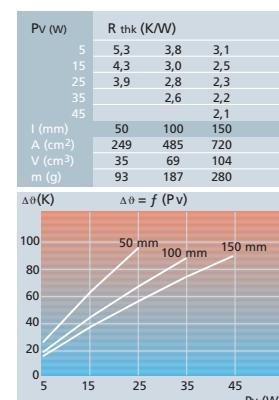
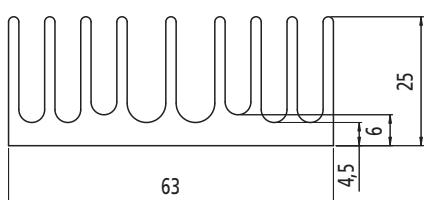
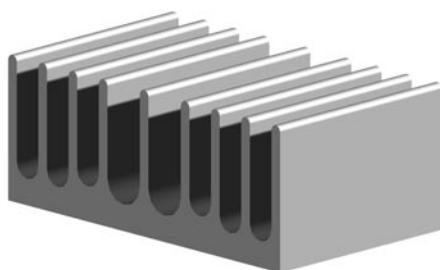
Technische Informationen (Toleranzen, etc.) auf Seite 38



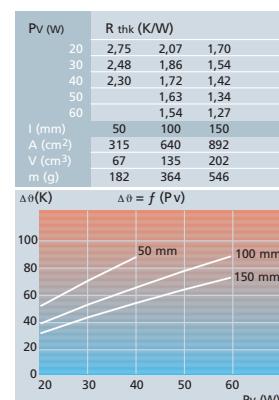
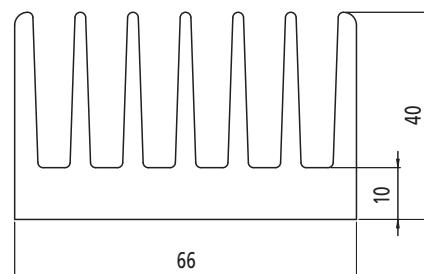
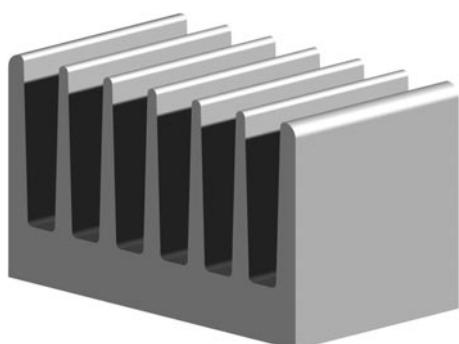
Type PR 151



Type PR 159



Type PR 296



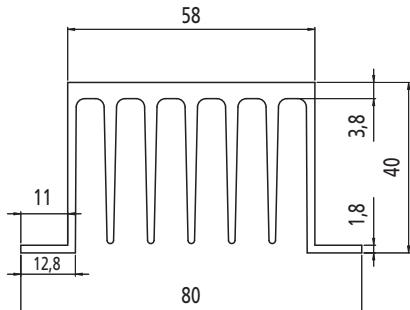
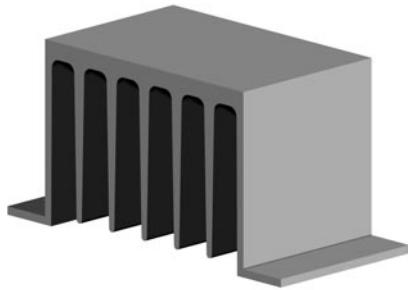
Type PR 168

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

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Einseitig verrippt (Kammprofile)

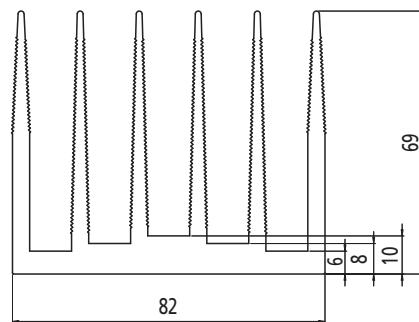
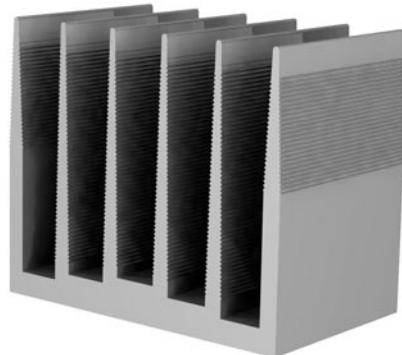
Technische Informationen (Toleranzen, etc.) auf Seite 38



Pv (W)	R thk (K/W)
20	2,32
30	2,11
40	1,95
50	1,84
60	1,43
I (mm)	100 150
A (cm ²)	332 650
V (cm ³)	37 73
m (g)	99 198

$\Delta\theta(K) = \Delta\theta = f(Pv)$

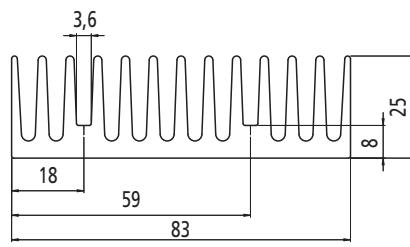
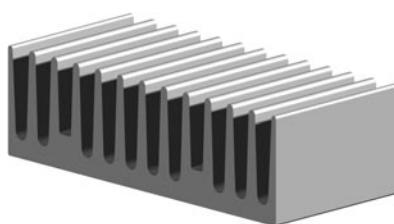
Type PR 181



Pv (W)	R thk (K/W)
20	1,87
40	1,68
60	1,54
80	1,04
100	0,97
I (mm)	100 150
A (cm ²)	537 1037
V (cm ³)	92 183
m (g)	247 495

$\Delta\theta(K) = \Delta\theta = f(Pv)$

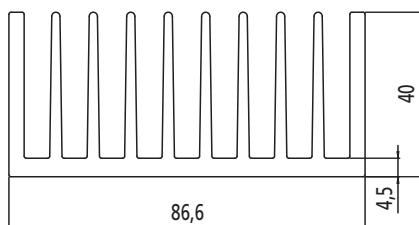
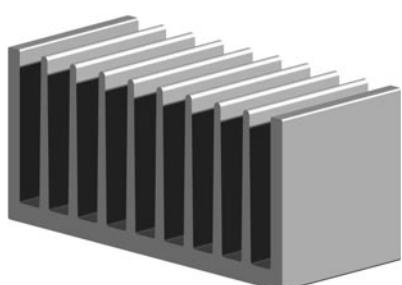
Type PR 314



Pv (W)	R thk (K/W)
20	2,75
30	2,56
40	2,45
50	1,85
60	1,40
I (mm)	100 150
A (cm ²)	375 728
V (cm ³)	55 110
m (g)	148 296

$\Delta\theta(K) = \Delta\theta = f(Pv)$

Type PR 193



Pv (W)	R thk (K/W)
20	1,95
40	1,75
60	1,60
80	1,09
100	1,01
I (mm)	100 150
A (cm ²)	467 907
V (cm ³)	67 134
m (g)	181 362

$\Delta\theta(K) = \Delta\theta = f(Pv)$

Type PR 244



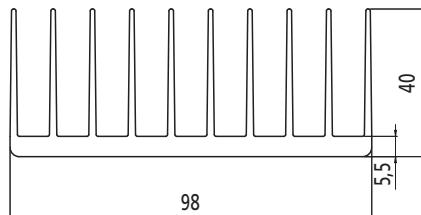
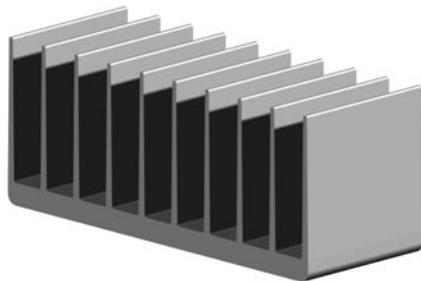
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Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verripppt (Kammprofile)

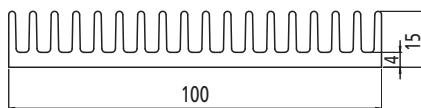
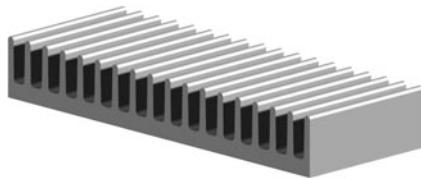
Technische Informationen (Toleranzen, etc.) auf Seite 38



Pv (W)	R thk (K/W)		
20	1,92	1,38	1,16
40	1,70	1,23	1,05
60	1,58	1,15	0,98
80	1,09	0,93	
100			0,89
I (mm)	50	100	150
A (cm ²)	472	923	1.373
V (cm ³)	54	109	163
m (g)	147	293	440

$\Delta\theta(K) = \Delta\theta = f(Pv)$

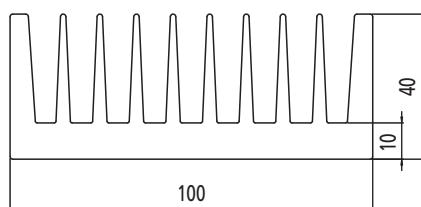
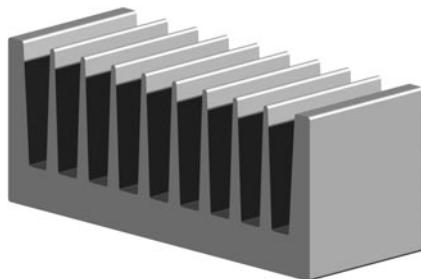
Type PR 182



Pv (W)	R thk (K/W)		
10	4,0	2,8	2,3
20	3,4	2,5	2,1
30	3,1	2,3	1,9
40	2,2	1,8	
50			1,7
I (mm)	50	100	150
A (cm ²)	301	586	871
V (cm ³)	41	82	123
m (g)	111	221	332

$\Delta\theta(K) = \Delta\theta = f(Pv)$

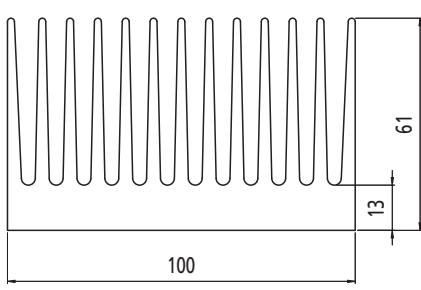
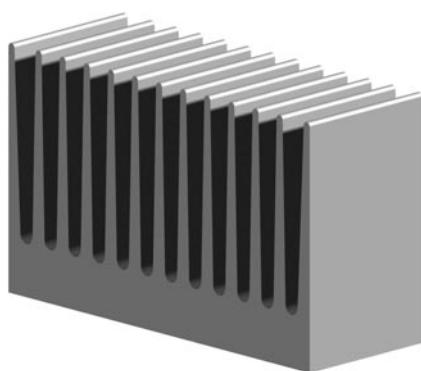
Type PR 161



Pv (W)	R thk (K/W)		
20	2,07	1,46	1,27
40	1,81	1,31	1,12
60	1,64	1,20	1,03
80	1,13	0,96	
100			0,92
I (mm)	50	100	150
A (cm ²)	451	862	1.272
V (cm ³)	101	203	304
m (g)	274	547	821

$\Delta\theta(K) = \Delta\theta = f(Pv)$

Type PR 173



Pv (W)	R thk (K/W)		
20	2,29	1,72	1,46
40	2,01	1,51	1,28
60	1,40	1,19	
80			1,12
I (mm)	50	100	150
A (cm ²)	772	1.481	2.189
V (cm ³)	160	320	480
m (g)	432	864	1.296

$\Delta\theta(K) = \Delta\theta = f(Pv)$

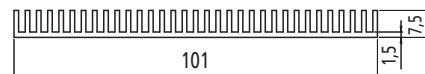
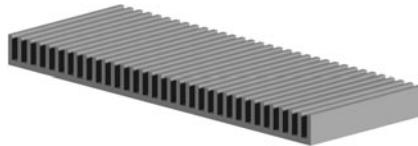
Type PR 213

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

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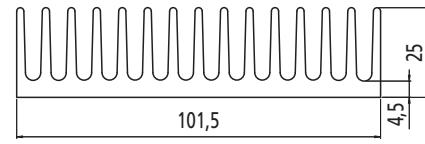
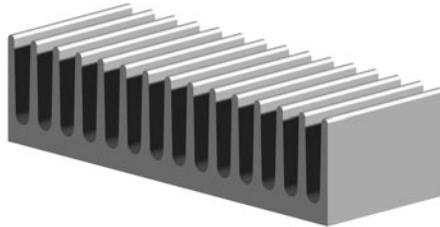


Pv (W)	R thk (K/W)		
5	5,9	4,4	3,4
10	4,9	3,8	3,0
15	4,5	3,4	2,7
20	4,2	3,2	2,6
25		3,0	2,4
I (mm)	50	100	150
A (cm ²)	313	617	922
V (cm ³)	20	40	60
m (g)	54	109	163

$\Delta\theta$ (K)	$\Delta\theta = f(Pv)$
100	50 mm
80	100 mm
60	150 mm
40	
20	
0	

Pv (W)

Type PR 167



Pv (W)	R thk (K/W)		
10	3,34	2,39	2,01
20	2,92	2,07	1,75
30	2,70	1,90	1,61
40		1,80	1,51
50		1,72	1,45
I (mm)	50	100	150
A (cm ²)	410	794	1.179
V (cm ³)	62	125	187
m (g)	168	337	505

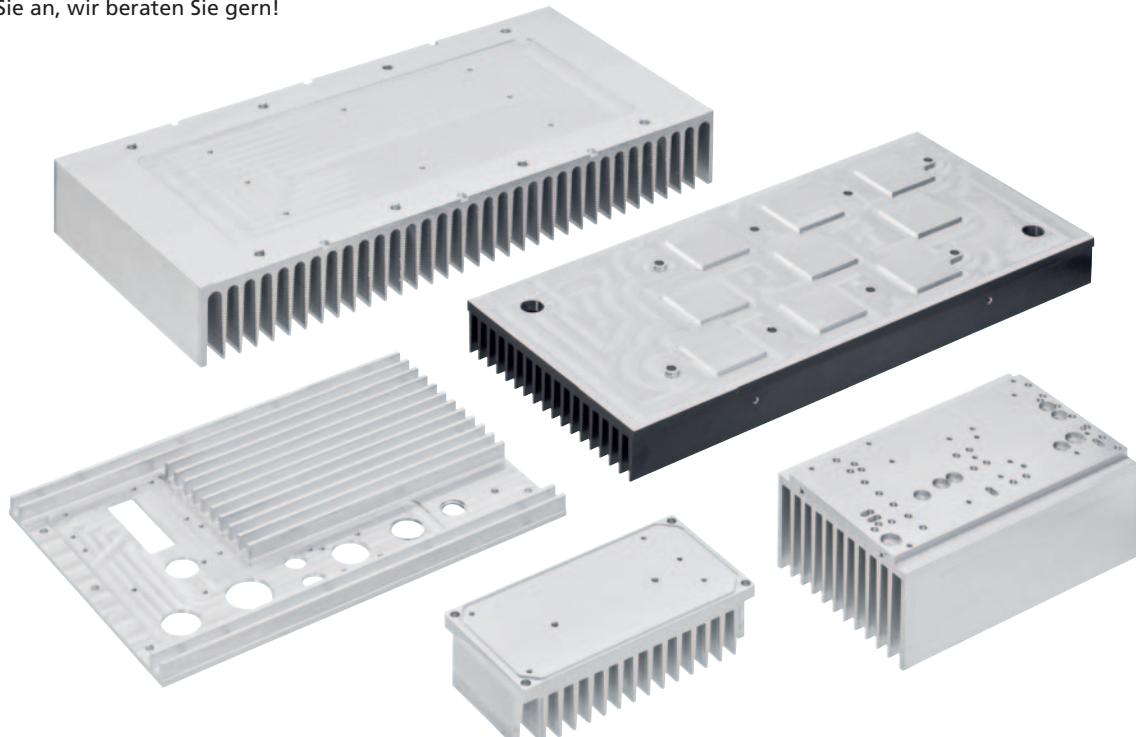
$\Delta\theta$ (K)	$\Delta\theta = f(Pv)$
100	50 mm
80	100 mm
60	150 mm
40	
20	
0	

Pv (W)

Type PR 297

Einbaufertige Lieferung, einschließlich kompletter Bearbeitung und Oberflächen-Veredelung nach Ihren Wünschen ist eine unserer Hauptkompetenzen.

Fragen Sie an, wir beraten Sie gern!



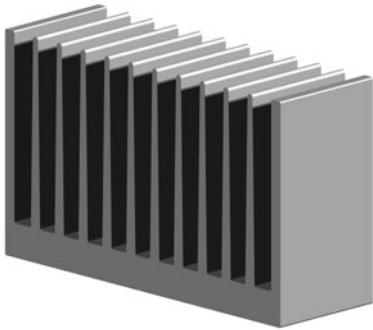
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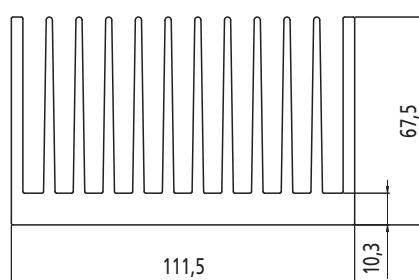
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verripppt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

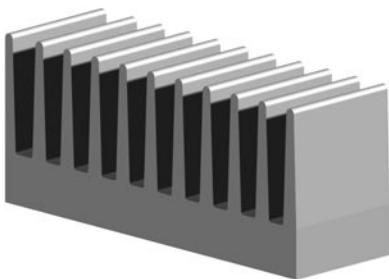


Type PR 211

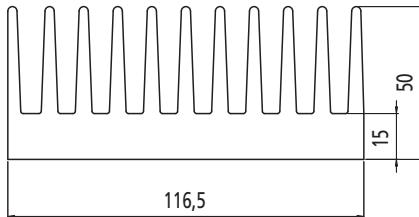


Pv (W)	R thk (K/W)		
20	1,54	1,15	0,95
40	1,40	1,07	0,90
60	1,33	1,02	0,83
80	1,25	0,95	0,78
100		0,90	0,75
I (mm)	50	100	150
A (cm ²)	870	1.676	2.482
V (cm ³)	159	318	477
m (g)	429	859	1.288

$\Delta\theta(K)$	$\Delta\theta = f(Pv)$		
100	50 mm	100 mm	150 mm
80			
60			
40			
20			

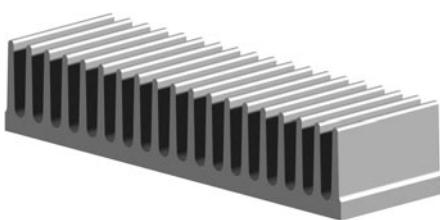


Type PR 176

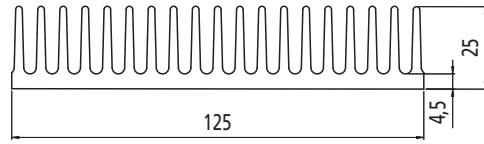


Pv (W)	R thk (K/W)		
20	1,57	1,21	0,99
40	1,44	1,10	0,91
60	1,34	1,04	0,86
80		0,99	0,82
100			0,78
I (mm)	50	100	150
A (cm ²)	600	1.131	1.663
V (cm ³)	170	340	510
m (g)	459	918	1.377

$\Delta\theta(K)$	$\Delta\theta = f(Pv)$		
100	50 mm	100 mm	150 mm
80			
60			
40			
20			

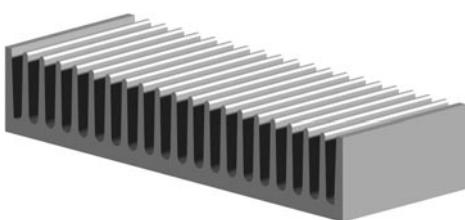


Type PR 228

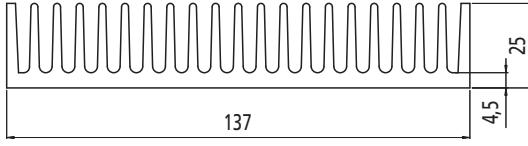


Pv (W)	R thk (K/W)		
10	3,02	2,17	1,82
20	2,62	1,86	1,57
30	2,41	1,70	1,44
40	2,27	1,60	1,35
50		1,52	1,29
I (mm)	50	100	150
A (cm ²)	518	1.005	1.493
V (cm ³)	78	155	233
m (g)	210	419	629

$\Delta\theta(K)$	$\Delta\theta = f(Pv)$		
100	50 mm	100 mm	150 mm
80			
60			
40			
20			



Type PR 287



Pv (W)	R thk (K/W)		
20	2,20	1,80	1,45
40	1,85	1,46	1,23
60	1,65	1,33	1,10
80		1,22	1,00
100			0,93
I (mm)	50	100	150
A (cm ²)	596	1.158	1.720
V (cm ³)	86	171	257
m (g)	231	462	693

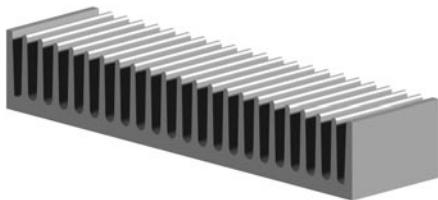
$\Delta\theta(K)$	$\Delta\theta = f(Pv)$		
100	50 mm	100 mm	150 mm
80			
60			
40			
20			

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

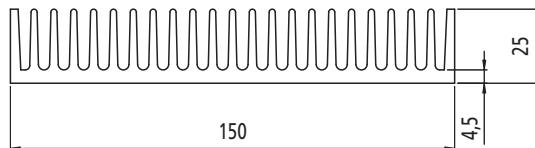
ALUTRONIC
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Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

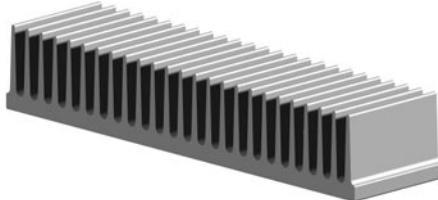


Type PR 148

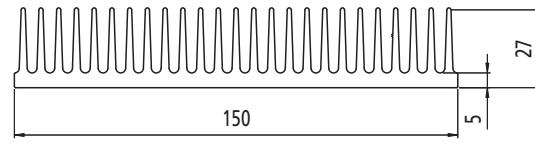


Pv (W)	R thk (K/W)		
10	2,38	1,76	1,48
30	1,84	1,49	1,18
50	1,63	1,32	1,11
70		1,22	1,02
90			0,96
I (mm)	50	100	150
A (cm ²)	632	1.226	1.819
V (cm ³)	97	194	291
m (g)	261	523	784

$\Delta\theta(K)$	$\Delta\theta = f(P_v)$
50 mm	50 mm
100 mm	100 mm
150 mm	150 mm
0	0
20	20
40	40
60	60
80	80
100	100

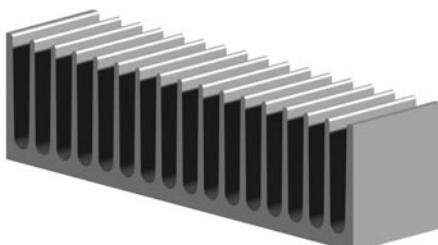


Type PR 160

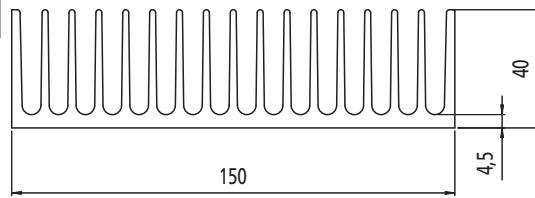


Pv (W)	R thk (K/W)		
10	2,33	1,71	1,43
30	1,87	1,44	1,20
50	1,63	1,27	1,06
70		1,17	0,97
90			0,91
I (mm)	50	100	150
A (cm ²)	700	1.362	2.023
V (cm ³)	97	194	291
m (g)	262	525	787

$\Delta\theta(K)$	$\Delta\theta = f(P_v)$
50 mm	50 mm
100 mm	100 mm
150 mm	150 mm
0	0
20	20
40	40
60	60
80	80
100	100

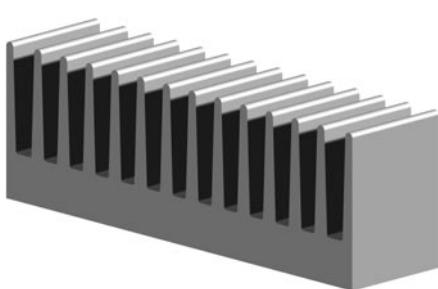


Type PR 242

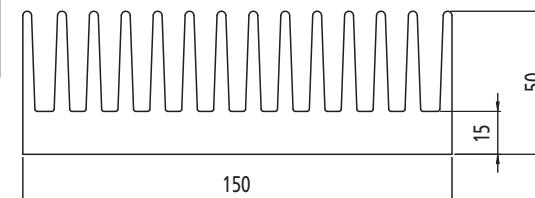


Pv (W)	R thk (K/W)		
40	1,20	0,93	0,75
60	1,13	0,90	0,72
80	1,06	0,85	0,70
100	1,00	0,81	0,67
120		0,77	0,64
I (mm)	50	100	150
A (cm ²)	786	1.526	2.266
V (cm ³)	114	228	342
m (g)	308	616	924

$\Delta\theta(K)$	$\Delta\theta = f(P_v)$
50 mm	50 mm
100 mm	100 mm
150 mm	150 mm
0	0
20	20
40	40
60	60
80	80
100	100



Type PR 172



Pv (W)	R thk (K/W)		
40	1,19	0,97	0,80
60	1,10	0,90	0,74
80	1,05	0,84	0,70
100		0,80	0,66
120			0,63
I (mm)	50	100	150
A (cm ²)	745	1.407	2.069
V (cm ³)	207	413	620
m (g)	558	1.115	1.673

$\Delta\theta(K)$	$\Delta\theta = f(P_v)$
50 mm	50 mm
100 mm	100 mm
150 mm	150 mm
0	0
20	20
40	40
60	60
80	80
100	100



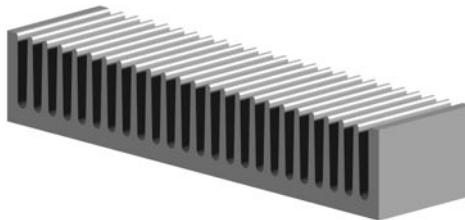
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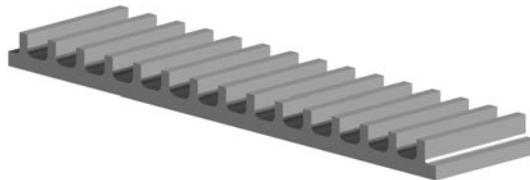
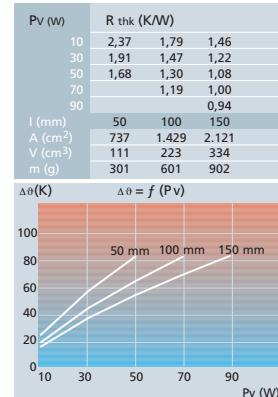
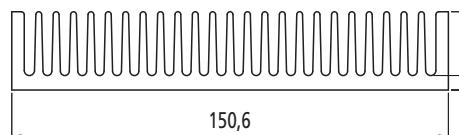
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile)

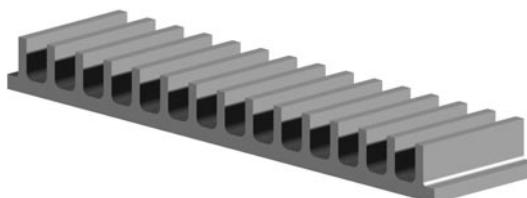
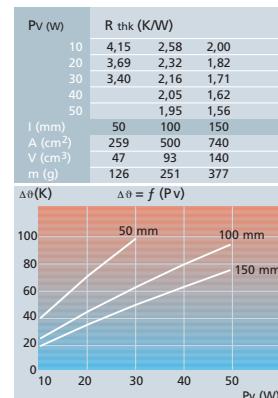
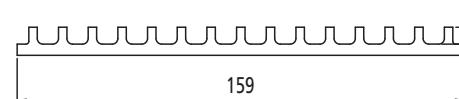
Technische Informationen (Toleranzen, etc.) auf Seite 38



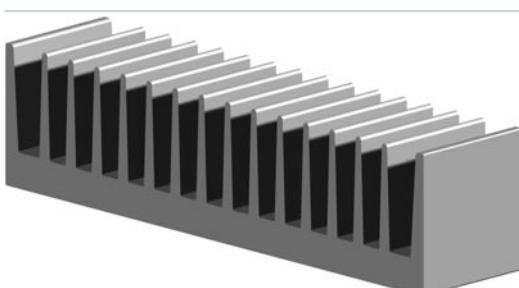
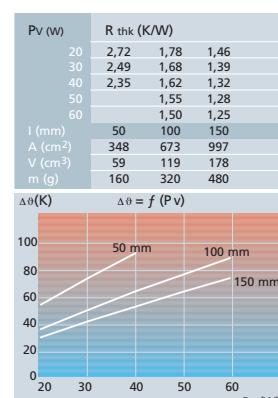
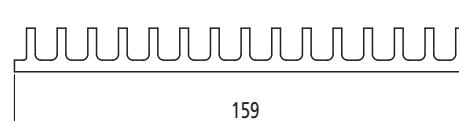
Type PR 162



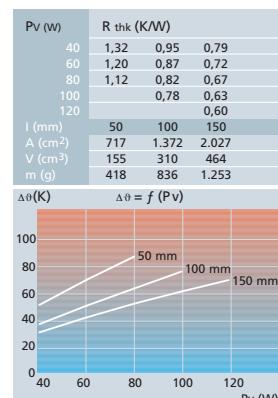
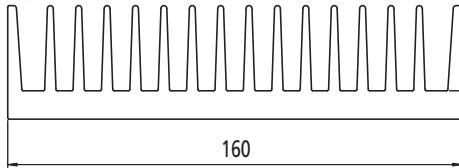
Type PR 310



Type PR 158



Type PR 169

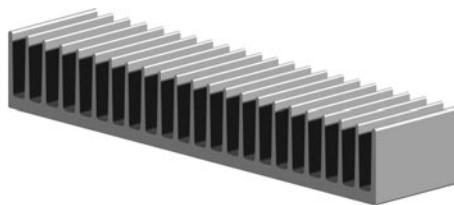


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

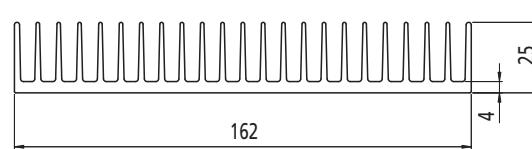
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Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

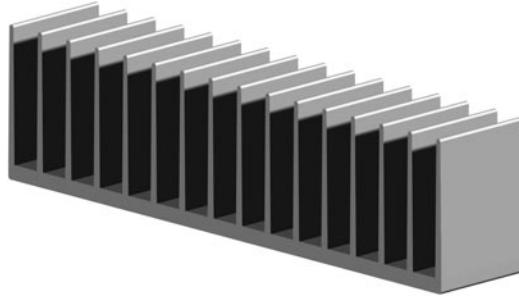


Type PR 174

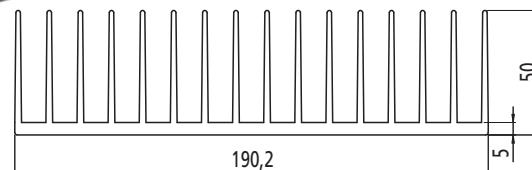


Pv (W)	R thK (K/W)
20	1,89
40	1,62
60	1,49
80	1,09
100	0,94
	1,03
	0,88
	0,84
i (mm)	50 100 150
A (cm ²)	666 1.301 1.937
V (cm ³)	75 150 225
m (g)	203 406 608

Δθ(K)	Δθ = f (Pv)
100	50 mm 100 mm 150 mm
80	
60	
40	
0	

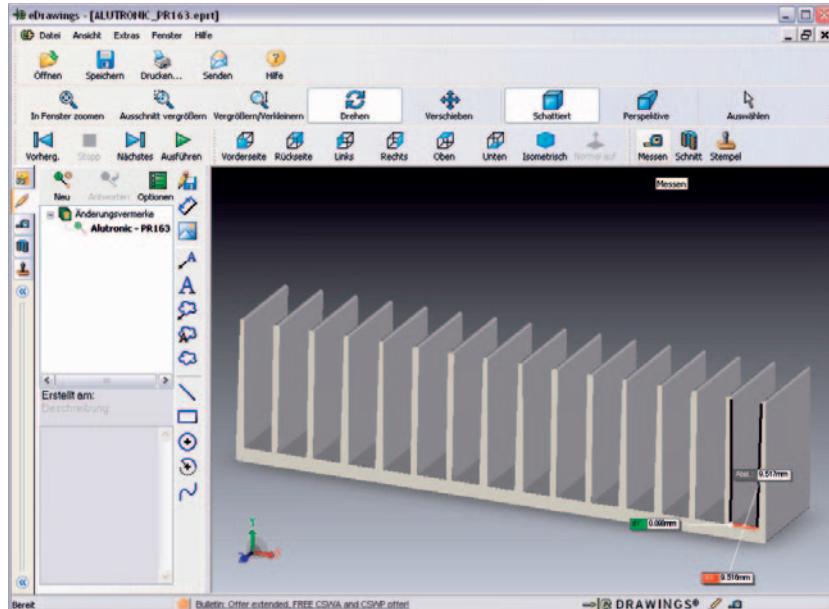


Type PR 163



Pv (W)	R thK (K/W)
40	1,12
60	1,04
80	0,98
100	0,73
120	0,69
	0,57
i (mm)	50 100 150
A (cm ²)	993 1.931 2.869
V (cm ³)	137 275 412
m (g)	371 741 1.112

Δθ(K)	Δθ = f (Pv)
100	50 mm 100 mm 150 mm
80	
60	
40	
0	



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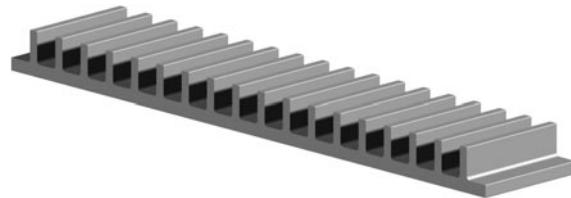
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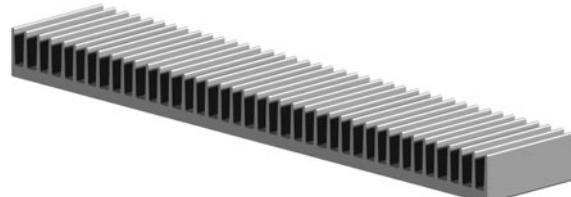
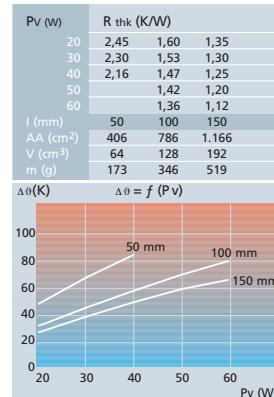
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verripppt (Kammprofile)

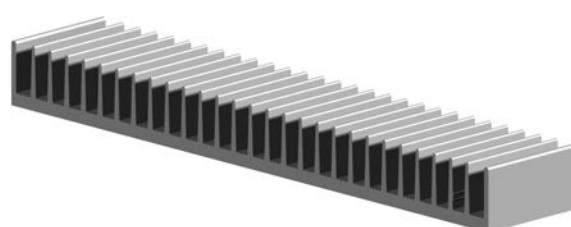
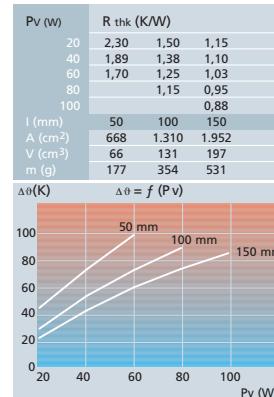
Technische Informationen (Toleranzen, etc.) auf Seite 38



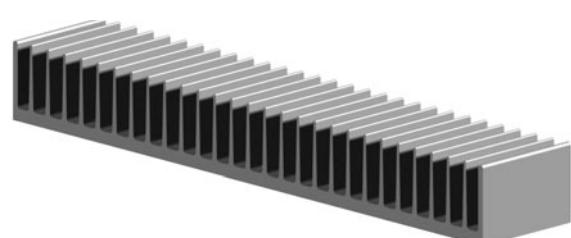
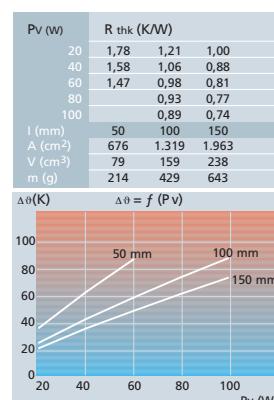
Type PR 199



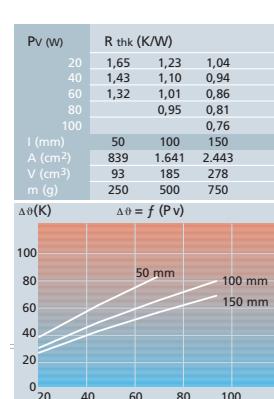
Type PR 240



Type PR 103



Type PR 165

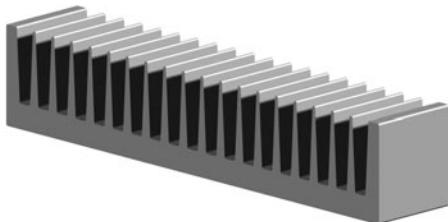


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

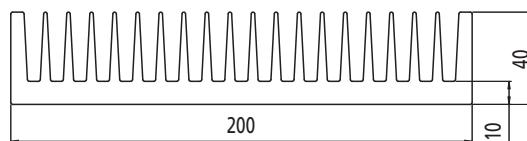
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Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38

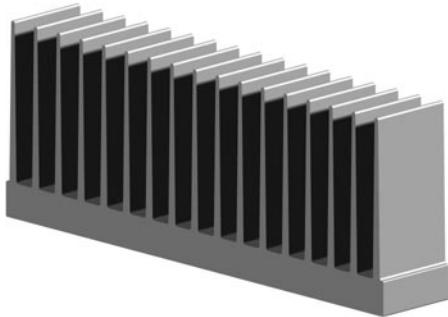


Type PR 170

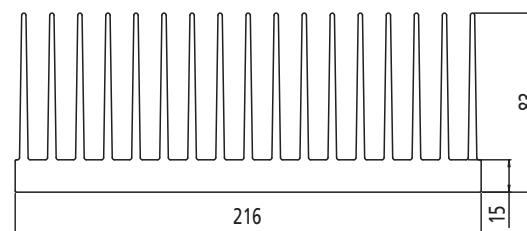


Pv (W)	R thk (K/W)
40	1,18 0,90 0,73
60	1,11 0,84 0,68
80	1,05 0,79 0,64
100	0,76 0,60
120	0,73 0,57
I (mm)	50 100 150
A (cm ²)	883 1.686 2.489
V (cm ³)	199 398 597
m (g)	537 1.074 1.611

Δθ(K)	Δθ = f (Pv)
100	
80	50 mm
60	100 mm
40	150 mm

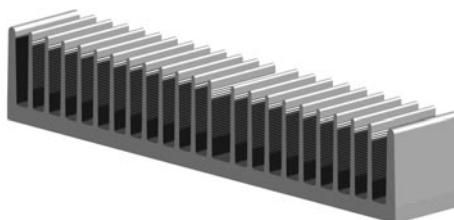


Type PR 236

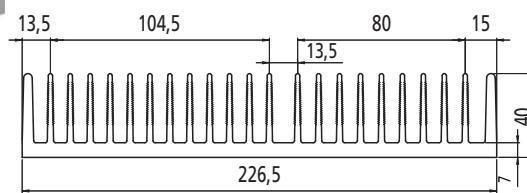


Pv (W)	R thk (K/W)
40	0,85 0,63 0,50
80	0,73 0,57 0,46
120	0,68 0,53 0,43
160	0,63 0,49 0,39
200	0,46 0,37
I (mm)	50 100 150
A (cm ²)	1.512 2.891 4.269
V (cm ³)	334 669 1.003
m (g)	903 1.806 2.709

Δθ(K)	Δθ = f (Pv)
100	
80	50 mm
60	100 mm
40	150 mm

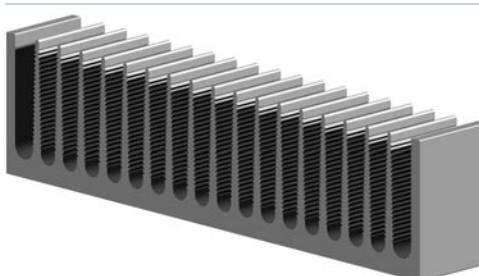


Type PR 149

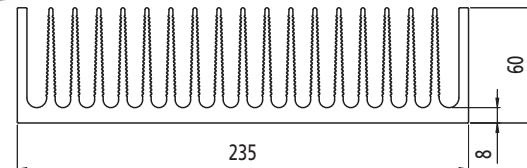


Pv (W)	R thk (K/W)
40	1,04 0,77 0,64
60	0,96 0,72 0,60
80	0,91 0,68 0,56
100	0,87 0,66 0,55
120	0,83 0,64 0,53
I (mm)	50 100 150
A (cm ²)	1.049 2.025 3.002
V (cm ³)	180 360 541
m (g)	487 973 1.460

Δθ(K)	Δθ = f (Pv)
100	
80	50 mm
60	100 mm
40	150 mm



Type PR 235



Pv (W)	R thk (K/W)
40	0,88 0,70 0,55
80	0,78 0,63 0,48
120	0,71 0,58 0,44
160	0,53 0,41
200	0,49 0,38
I (mm)	50 100 150
A (cm ²)	1.458 2.807 4.156
V (cm ³)	273 547 820
m (g)	738 1.476 2.213

Δθ(K)	Δθ = f (Pv)
100	
80	50 mm
60	100 mm
40	150 mm



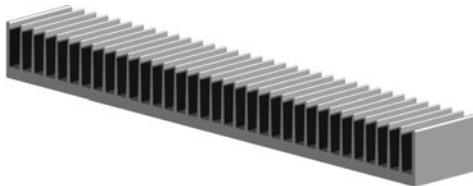
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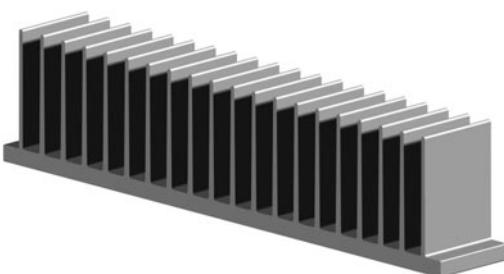
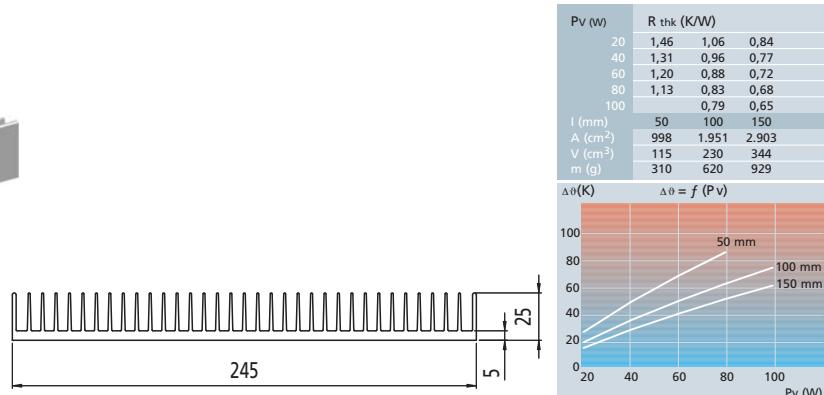
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verripppt (Kammprofile)

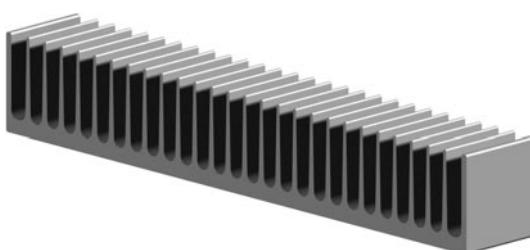
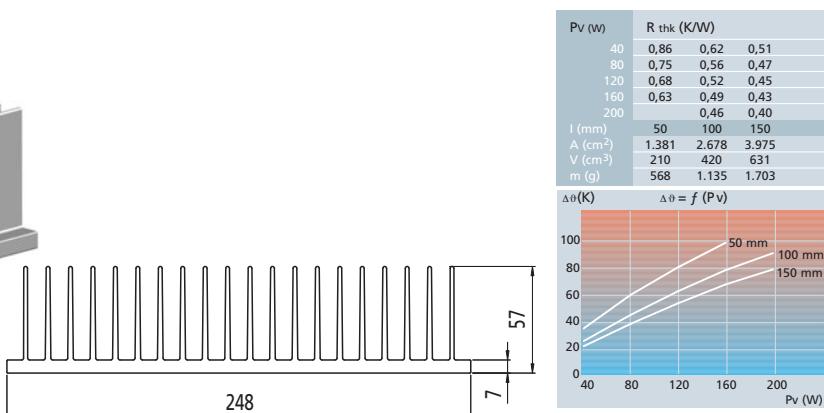
Technische Informationen (Toleranzen, etc.) auf Seite 38



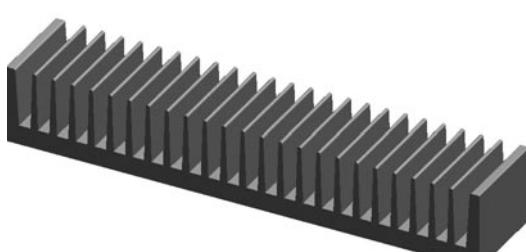
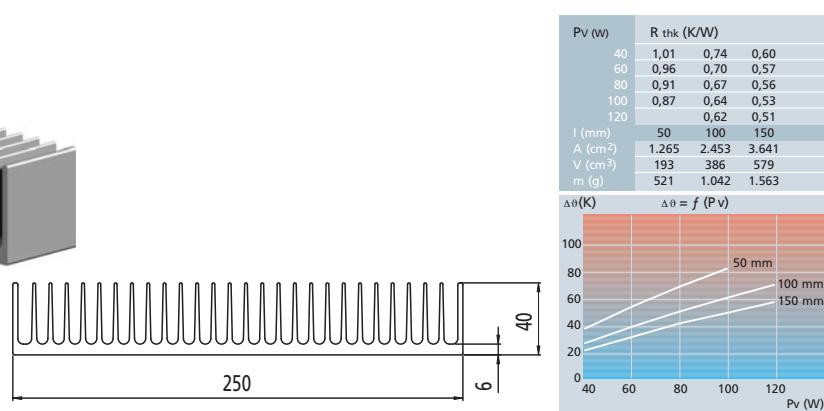
Type PR 166



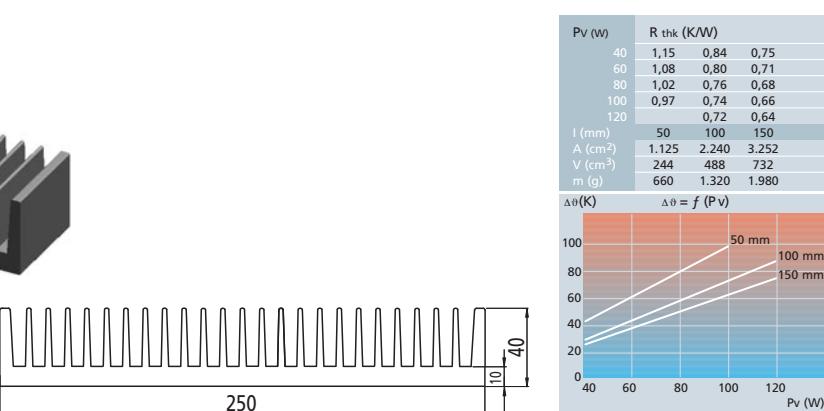
Type PR 189



Type PR 175



Type PR 325

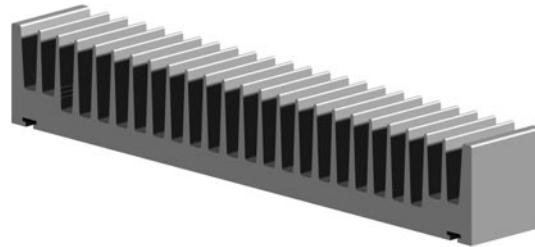


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

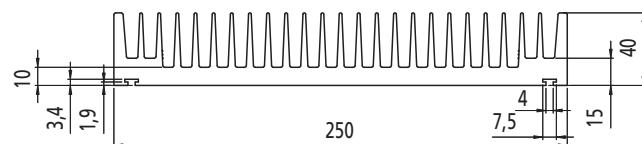
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Einseitig verrippt (Kammprofile)

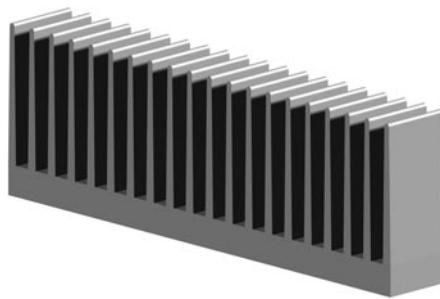
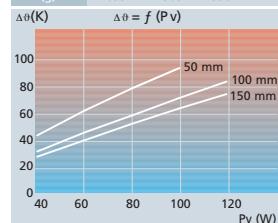
Technische Informationen (Toleranzen, etc.) auf Seite 38



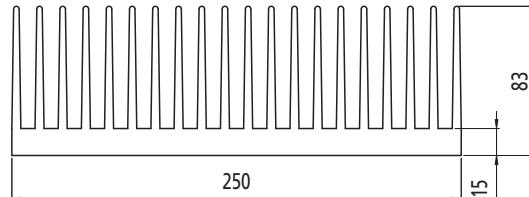
Type PR 201



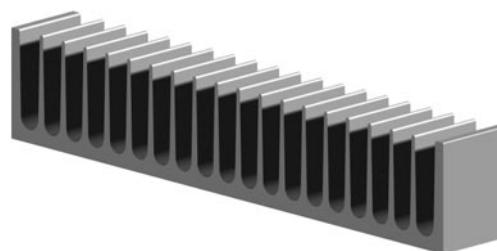
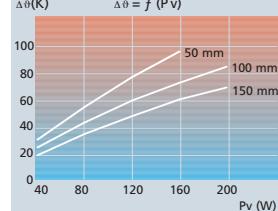
Pv (W)	R thk (K/W)		
40	1,16	0,85	0,75
60	1,09	0,81	0,71
80	1,03	0,77	0,69
100	0,98	0,75	0,67
120	0,93	0,73	0,65
I (mm)	50	100	150
A (cm ²)	1.107	2.117	3.127
V (cm ³)	242	484	725
m (g)	653	1.305	1.958



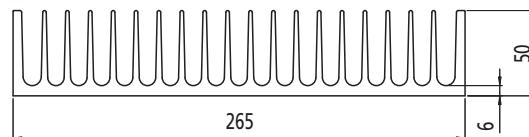
Type PR 237



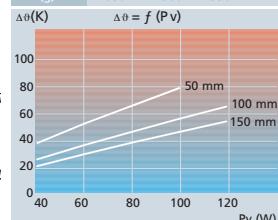
Pv (W)	R thk (K/W)		
40	0,75	0,60	0,45
80	0,69	0,54	0,43
120	0,65	0,50	0,40
160	0,61	0,46	0,38
200	0,43	0,35	
I (mm)	50	100	150
A (cm ²)	1.800	3.415	5.031
V (cm ³)	460	920	1.380
m (g)	1.242	2.484	3.726



Type PR 164



Pv (W)	R thk (K/W)		
40	1,00	0,69	0,56
60	0,92	0,64	0,53
80	0,86	0,61	0,50
100	0,82	0,59	0,49
120	0,57	0,47	
I (mm)	50	100	150
A (cm ²)	1.232	2.368	3.504
V (cm ³)	241	482	722
m (g)	650	1.300	1.950



Qualität zahlt sich aus!

Konsequentes QS-Management mit modernster Prüftechnik sichert unseren hohen Qualitätsstandard. Anspruchsvolle und sich ständig ändernde Bearbeitungsvarianten nach Kundenwunsch sind unsere tägliche Aufgabe.



Wir wachsen mit Ihren Anforderungen!



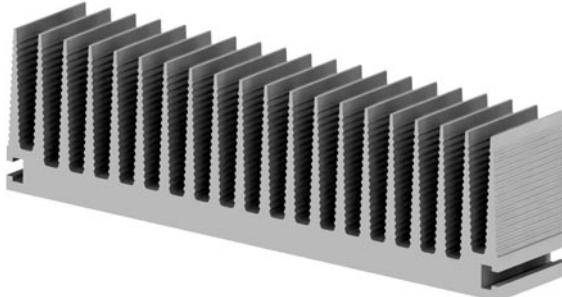
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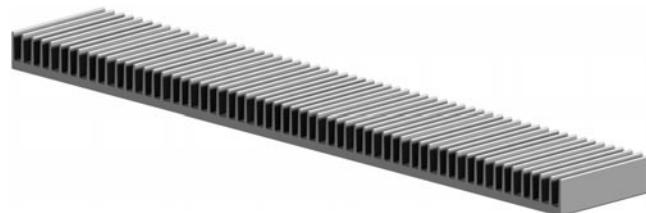
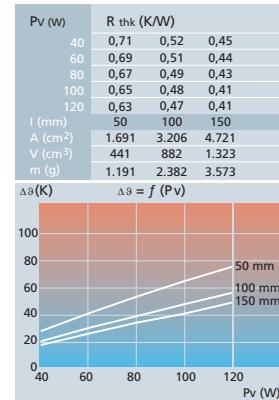
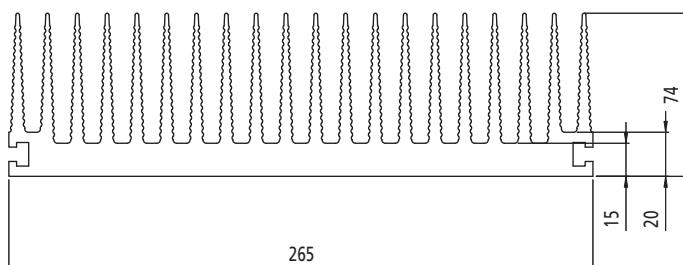
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile)

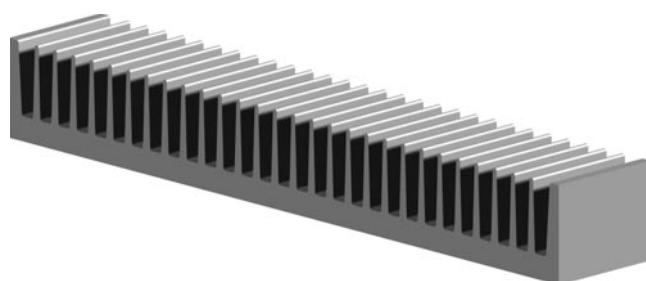
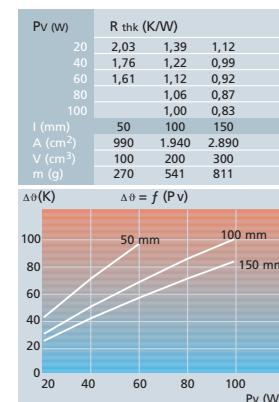
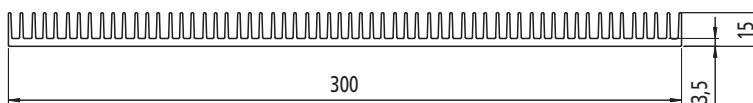
Technische Informationen (Toleranzen, etc.) auf Seite 38



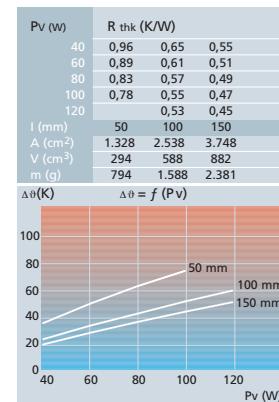
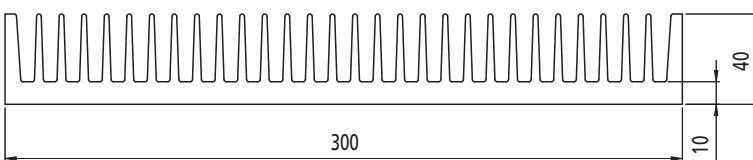
Type PR 186



Type PR 247



Type PR 171

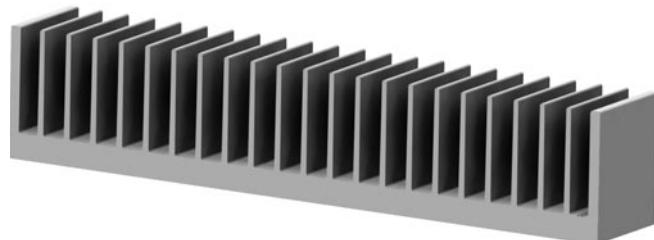


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

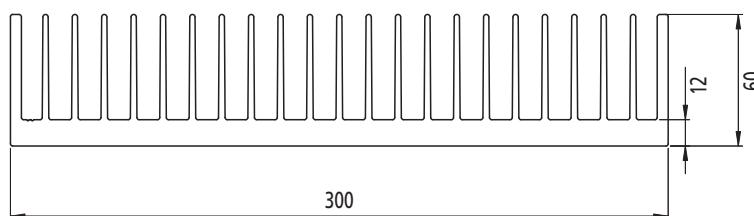
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Einseitig verrippt (Kammprofile)

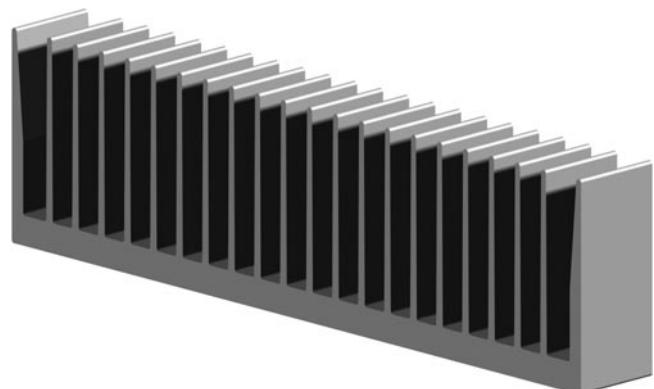
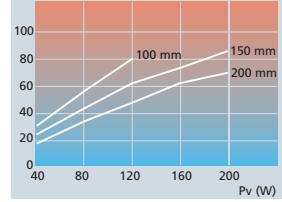
Technische Informationen (Toleranzen, etc.) auf Seite 38



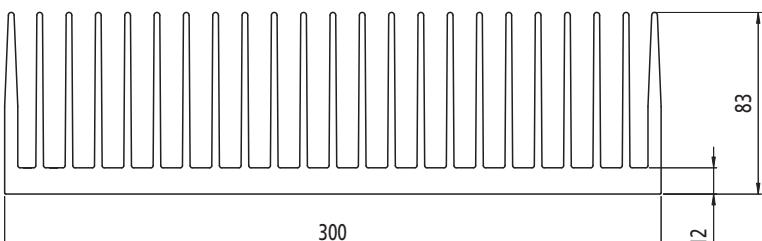
Type PR 360



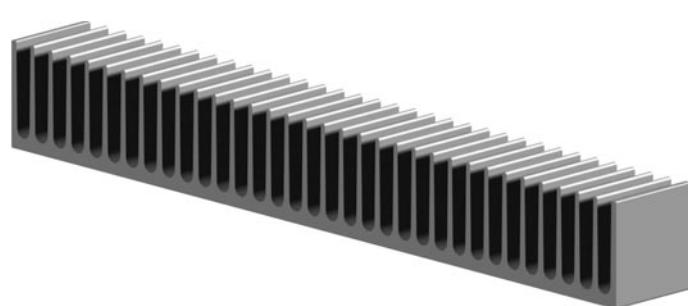
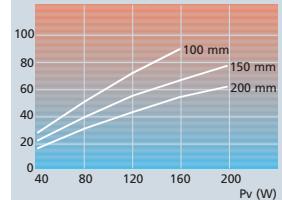
Pv (W)	R thk (K/W)
40	0,78
80	0,71
120	0,67
160	0,62
200	0,43
I (mm)	100 150 200
A (cm ²)	2.968 4.384 5.800
V (cm ³)	679 1.018 1.357
m (g)	1.833 2.749 3.665



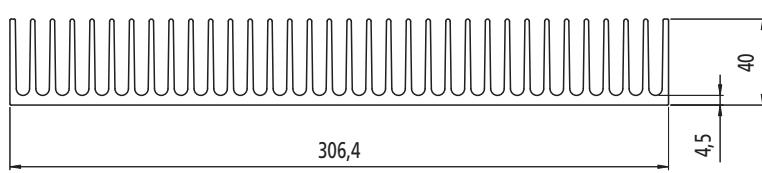
Type PR 304



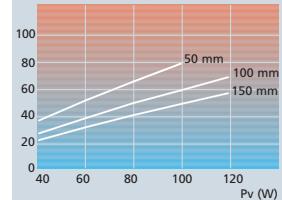
Pv (W)	R thk (K/W)
40	0,72
80	0,66
120	0,62
160	0,58
200	0,40
I (mm)	100 150 200
A (cm ²)	1.986 3.895 5.805
V (cm ³)	435 869 1.304
m (g)	2.388 3.582 4.776



Type PR 177



Pv (W)	R thk (K/W)
40	0,98
60	0,91
80	0,86
100	0,83
120	0,60
I (mm)	50 100 150
A (cm ²)	1.574 3.052 4.530
V (cm ³)	240 480 719
m (g)	647 1.295 1.942



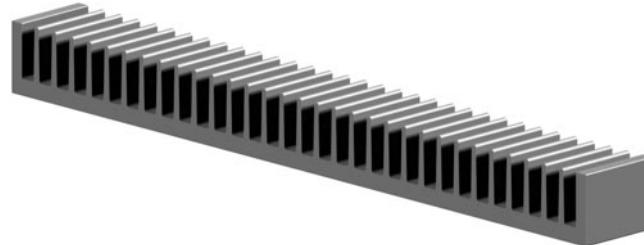
www.alutronic.de



Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

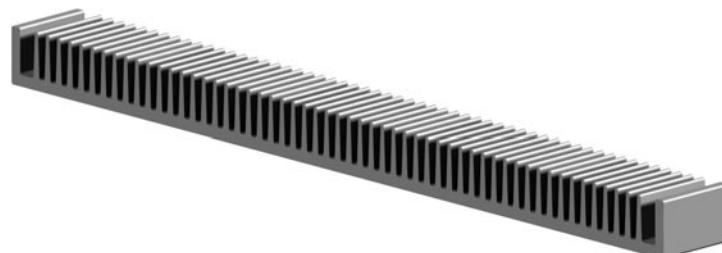
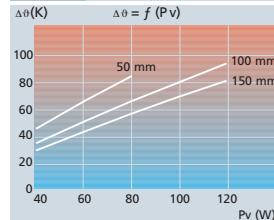
Einseitig verrippt (Kammprofile)

Technische Informationen (Toleranzen, etc.) auf Seite 38



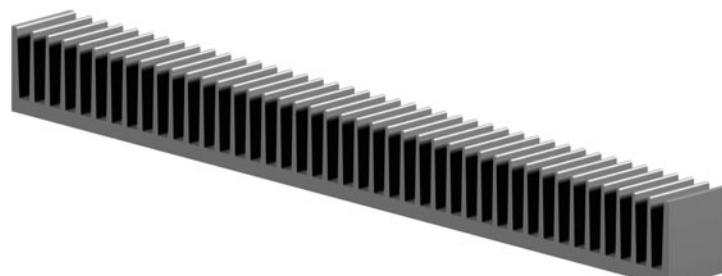
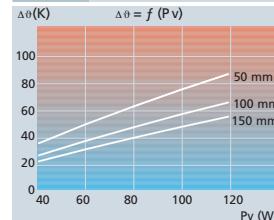
Type PR 298

Pv (W)	R_thk (K/W)		
40	1,22	0,94	0,80
60	1,16	0,90	0,77
80	1,11	0,87	0,75
100		0,84	0,73
120		0,82	0,71
I (mm)	50	100	150
A (cm ²)	1.051	2.103	3.155
V (cm ³)	230	459	688
m (g)	620	1.239	1.859



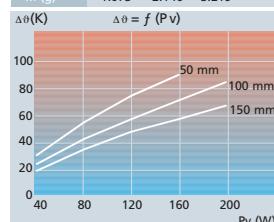
Type PR 178

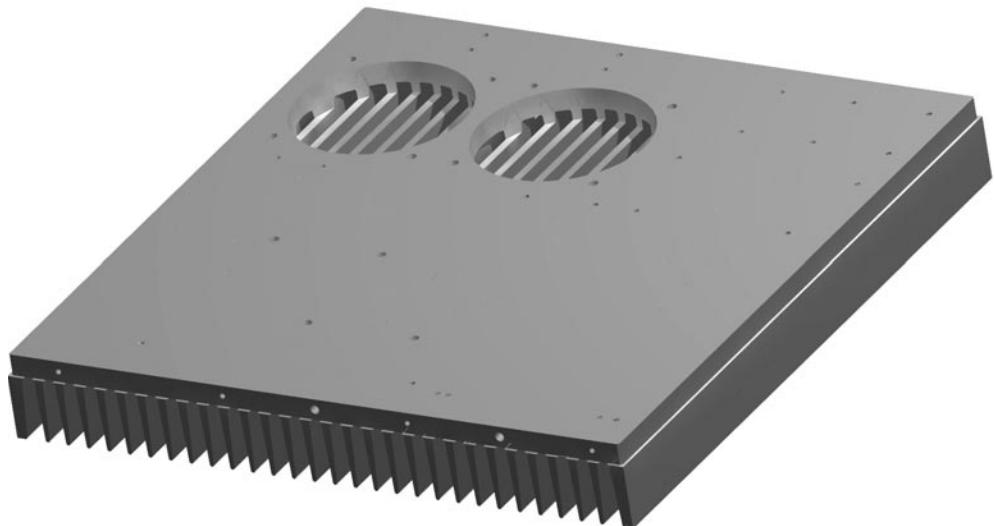
Pv (W)	R_thk (K/W)		
40	0,89	0,66	0,54
60	0,84	0,63	0,52
80	0,80	0,60	0,50
100	0,77	0,58	0,48
120	0,74	0,56	0,47
I (mm)	50	100	150
A (cm ²)	1.802	3.501	5.200
V (cm ³)	258	516	774
m (g)	697	1.394	2.091



Type PR 300

Pv (W)	R_thk (K/W)		
40	0,75	0,58	0,45
80	0,69	0,53	0,43
120	0,63	0,48	0,40
160	0,57	0,45	0,36
200		0,43	0,34
I (mm)	50	100	150
A (cm ²)	2.002	3.846	5.689
V (cm ³)	397	795	1.192
m (g)	1.073	2.146	3.219





Kühlkörper einbaufertig konfektioniert in jeder Größe.

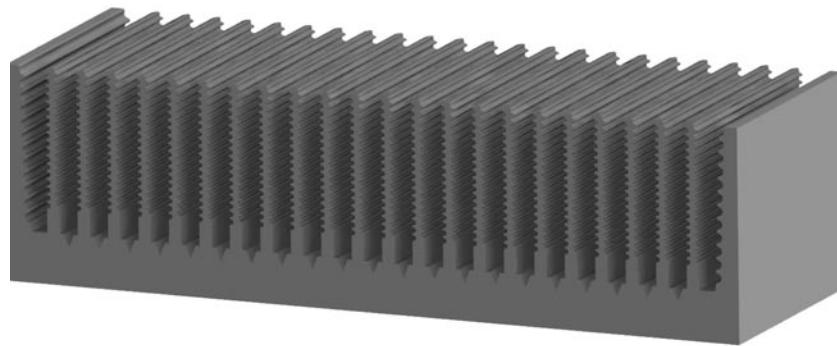
Fragen Sie an, wir beraten Sie gern!



Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile) mit eingepressten Vollrippen

Technische Informationen (Toleranzen, etc.) auf Seite 38



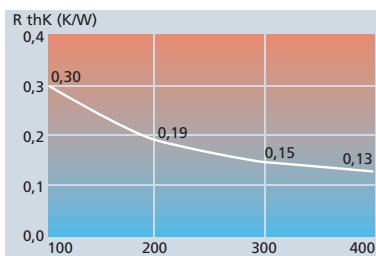
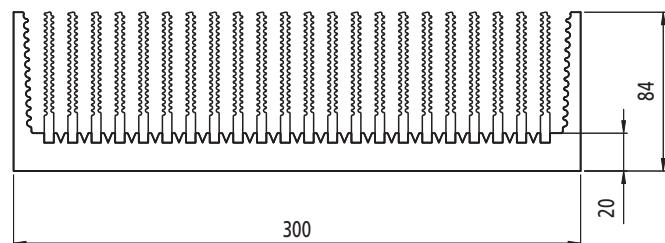
Für hohe Leistungsbereiche:

Hochleistungs-Profilkühlkörper für die Wärmeabfuhr durch freie Konvektion oder Zwangsbelüftung.

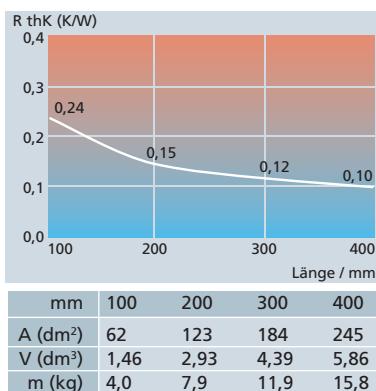
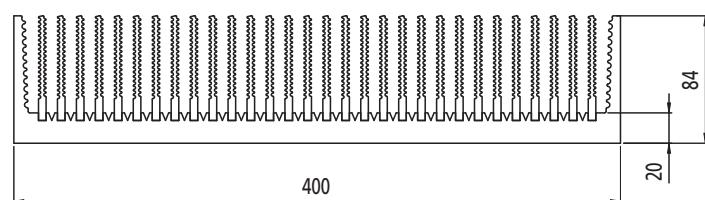
Die eingepressten Vollrippen bieten durch zusätzliche Verrippung ein hohes Maß an Oberfläche für eine maximale Wärmeabfuhr.

Die Wärmeabfuhrleistung bei Zwangsbelüftung ist wesentlich abhängig von der Leistungsfähigkeit (Druckaufbau / Luftvolumenstrom) des verwendeten Lüfters. Aussagefähige Werte für die Wärmeabfuhr mittels Zwangsbelüftung sind daher nur in Verbindung mit den entsprechenden Lüfterdaten zu ermitteln.

Bei den R_{thK} -Werten in den Diagrammen dieser Profilgruppe handelt es sich um Richtwerte bei freier Konvektion, großflächiger Wärmeverteilung sowie schwarz eloxierter Oberfläche, ermittelt bei Kühlkörpertemperatur 85 °C und Umgebungstemperatur 35 °C



Type PR 255
(24 Rippen)



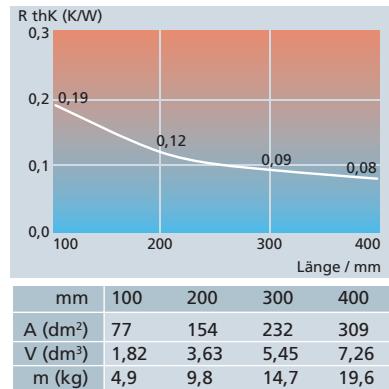
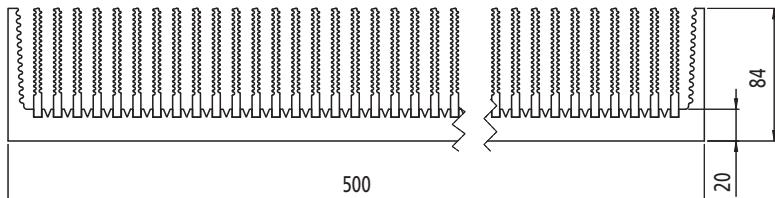
Type PR 256
(32 Rippen)

Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

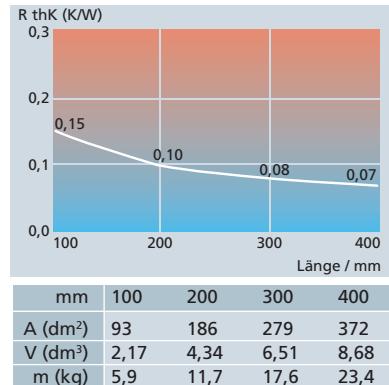
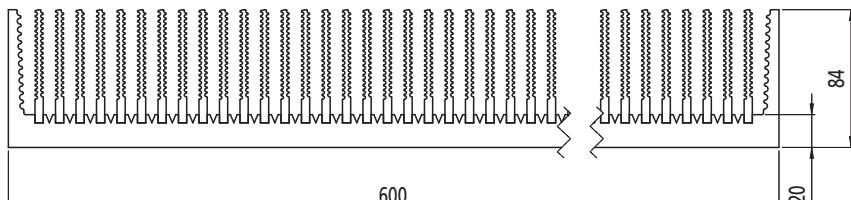
Einseitig verrippt (Kammprofile) mit eingepressten Vollrippen

Technische Informationen (Toleranzen, etc.) auf Seite 38

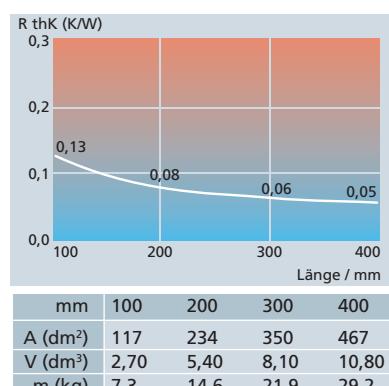
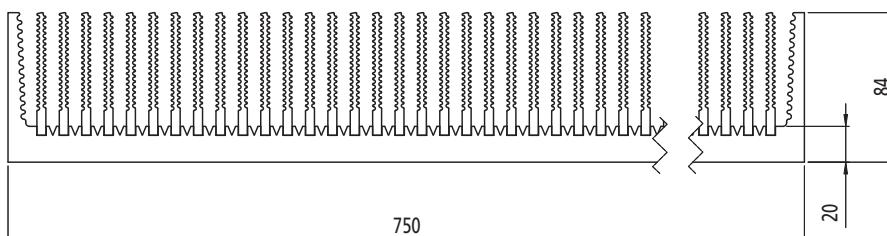
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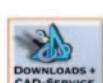
Type PR 257
(40 Rippen)



Type PR 258
(48 Rippen)



Type PR 259
(60 Rippen)



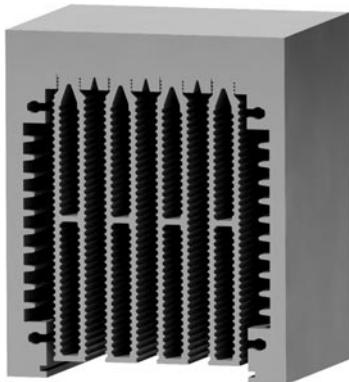
www.alutronic.de



Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile) mit eingepressten Hohlrippen

Technische Informationen (Toleranzen, etc.) auf Seite 38



Für höchste Leistungsbereiche:

Hochleistungs- Profilkühlkörper, für die forcierte Wärmeabfuhr durch Zwangsbelüftung.

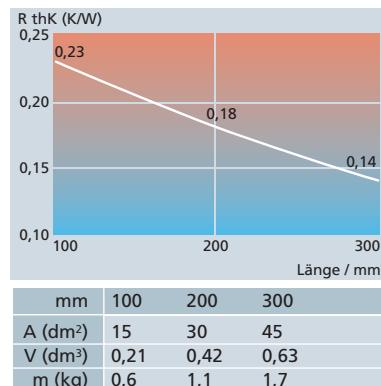
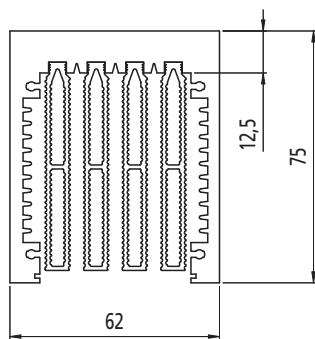
Die eingepressten Hohlrippen bieten durch zusätzliche Verrippung ein Höchstmaß an Oberfläche für eine maximale Wärmeabfuhr bei Zwangsbelüftung.

Die Wärmeabfuhrleistung ist wesentlich abhängig von der Leistungsfähigkeit (Druckaufbau / Luftvolumenstrom) des verwendeten Lüfters.

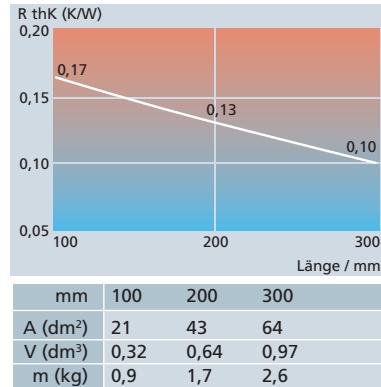
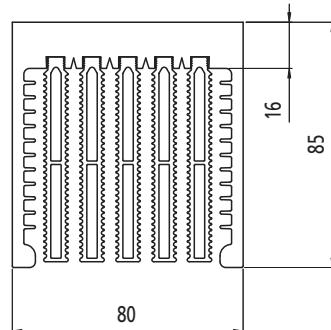
Bei den R_{thK} -Werten in den Diagrammen dieser Profilgruppe handelt es sich um Richtwerte bei einer Luftgeschwindigkeit von 5 m/s, bei Verwendung einer Vorkammer.

Weitere längenabhängige R_{thK} -Kennlinien in Relation zu Luftgeschwindigkeit, Luftvolumen und Druckverlust auf Anfrage.

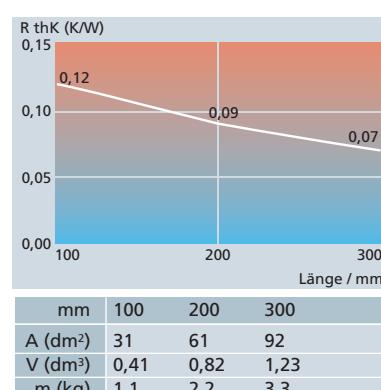
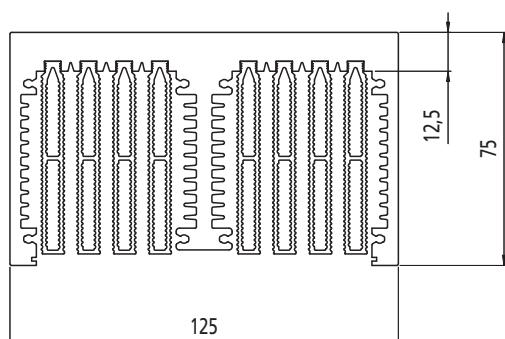
Type PR 715



Type PR 716



Type PR 718

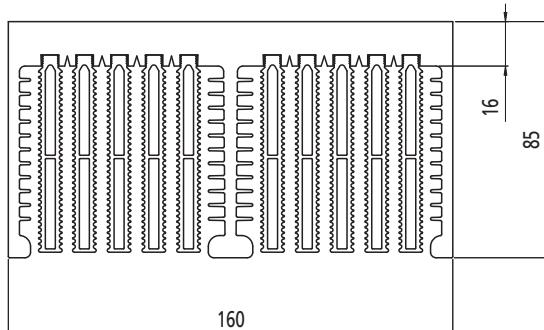


Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

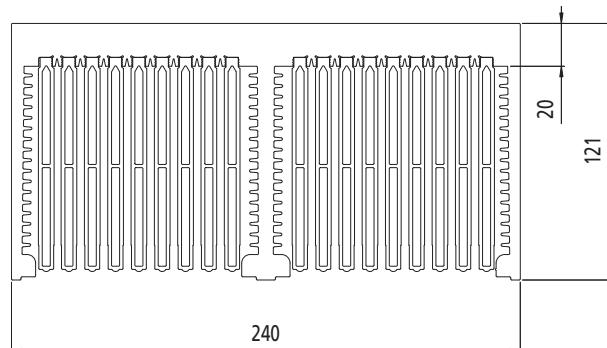
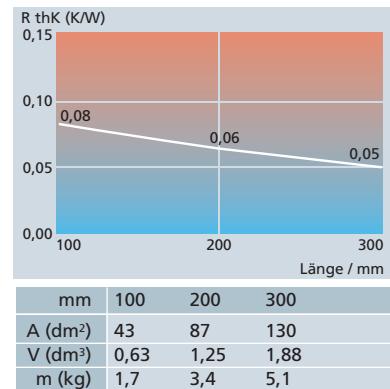
Einseitig verrippt (Kammprofile) mit eingepressten Hohlrippen

Technische Informationen (Toleranzen, etc.) auf Seite 38

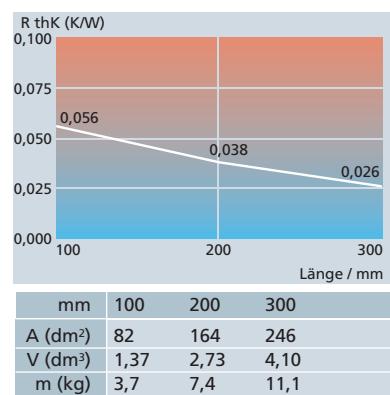
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Type PR 719



Type PR 720



Lieferung einbaufertig incl.
Bearbeitung, Oberfläche,
Montage und Konfektionierung
mit Lüftern nach Ihrer Wahl.



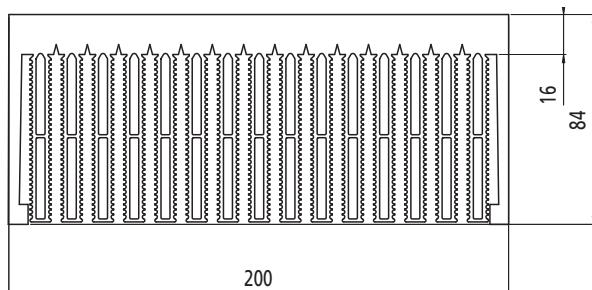
www.alutronic.de



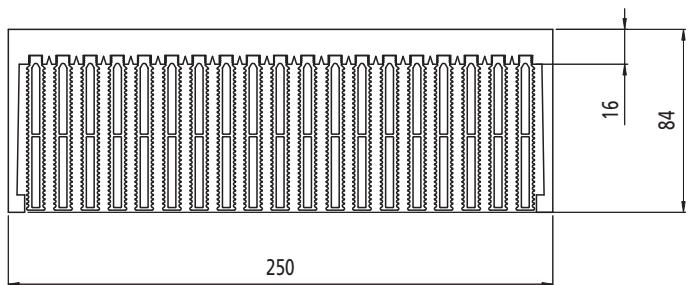
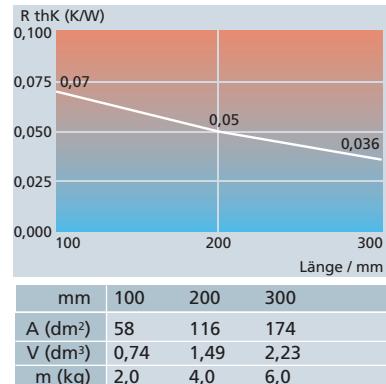
Standard-Profilkühlkörper aus AlMgSi 0,5 F 22

Einseitig verrippt (Kammprofile) mit eingepressten Hohlrippen

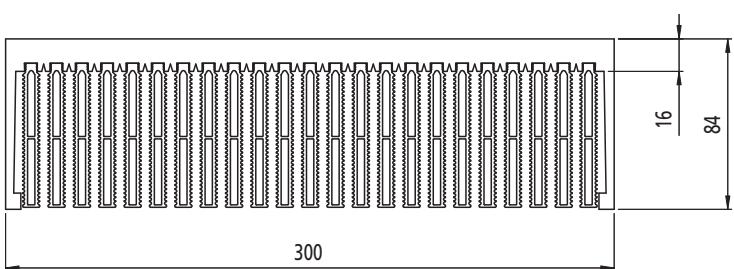
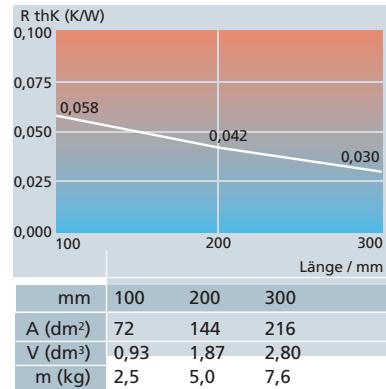
Technische Informationen (Toleranzen, etc.) auf Seite 38



Type PR 253



Type PR 252



Type PR 254

