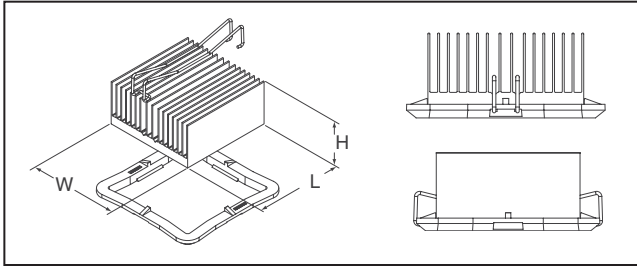
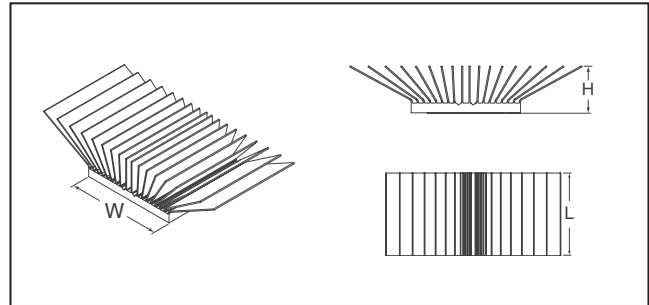


**maxiGRIP™ Heat Sink Attachment Assembly with Straight-Fin Heat Sink, Black Anodized, Thermal Tape**



**BGA Cooling Solutions**

**maxiFLOW™ Heat Sink Using Thermal Tape Attachment, Blue Anodized**



**C**

Dimensions (mm)			Thermal Resistance		Digi-Key Part No.	Price Each		
L	W	H	Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)		1	10	100
17	17	9.5	24.3	12.3	ATS1147-ND	9.71	7.39	6.33
19	19	9.5	22.0	11.6	ATS1148-ND	9.80	7.46	6.39
21	21	9.5	20.2	10.9	ATS1149-ND	9.89	7.53	6.45
23	23	9.5	16.8	7.6	ATS1150-ND	10.01	7.62	6.53
25	25	9.5	15.3	7.3	ATS1151-ND	10.10	7.69	6.59
27	27	9.5	14.1	7.0	ATS1152-ND	10.21	7.77	6.66
29	29	9.5	13.1	6.7	ATS1153-ND	10.30	7.84	6.72
30	30	9.5	12.7	6.6	ATS1154-ND	10.40	7.91	6.78
31	31	9.5	12.0	5.1	ATS1155-ND	10.51	8.00	6.86
32.5	32.5	9.5	11.3	5.0	ATS1156-ND	10.63	8.09	6.93
33	33	9.5	11.1	5.0	ATS1157-ND	10.65	8.11	6.95
35	35	9.5	10.3	4.8	ATS1158-ND	10.72	8.16	6.99
37.5	37.5	9.5	10.0	3.8	ATS1159-ND	10.83	8.25	7.07
40	40	9.5	9.1	3.7	ATS1160-ND	10.95	8.33	7.14
42.5	42.5	9.5	8.4	3.6	ATS1161-ND	11.04	8.40	7.20
45	45	9.5	8.4	2.9	ATS1162-ND	11.16	8.49	7.28
17	17	14.5	13.1	7.8	ATS1163-ND	10.47	7.97	6.83
19	19	14.5	12.0	7.4	ATS1164-ND	10.56	8.04	6.89
21	21	14.5	11.1	7.1	ATS1165-ND	10.67	8.12	6.96
23	23	14.5	8.8	4.9	ATS1166-ND	10.79	8.21	7.04
25	25	14.5	8.1	4.7	ATS1167-ND	10.88	8.28	7.10
27	27	14.5	7.6	4.5	ATS1168-ND	10.99	8.37	7.17
29	29	14.5	7.1	4.4	ATS1169-ND	11.11	8.46	7.25
30	30	14.5	6.9	4.3	ATS1170-ND	11.22	8.54	7.32
31	31	14.5	6.2	3.3	ATS1171-ND	11.34	8.63	7.40
32.5	32.5	14.5	5.9	3.2	ATS1172-ND	11.45	8.72	7.47
33	33	14.5	5.8	3.2	ATS1173-ND	11.50	8.75	7.50
35	35	14.5	5.4	3.1	ATS1174-ND	11.32	8.71	7.30
37.5	37.5	14.5	5.0	2.4	ATS1175-ND	11.43	8.79	7.37
40	40	14.5	4.6	2.4	ATS1176-ND	11.54	8.88	7.44
42.5	42.5	14.5	4.3	2.3	ATS1177-ND	11.66	8.97	7.52
45	45	14.5	4.1	1.9	ATS1178-ND	11.77	9.05	7.59
17	17	19.5	9.3	5.6	ATS1179-ND	10.93	8.32	7.13
19	19	19.5	8.4	5.3	ATS1180-ND	11.02	8.39	7.19
21	21	19.5	7.8	5.1	ATS1181-ND	11.13	8.47	7.26
23	23	19.5	7.3	4.9	ATS1182-ND	11.25	8.56	7.34
25	25	19.5	5.7	3.4	ATS1183-ND	11.36	8.65	7.41
27	27	19.5	5.3	3.3	ATS1184-ND	11.48	8.74	7.49
29	29	19.5	5.0	3.2	ATS1185-ND	11.34	8.72	7.31
30	30	19.5	4.8	3.1	ATS1186-ND	11.45	8.81	7.39
31	31	19.5	4.7	3.1	ATS1187-ND	11.57	8.90	7.46
32.5	32.5	19.5	4.1	2.3	ATS1188-ND	11.68	8.98	7.53
33	33	19.5	4.1	2.3	ATS1189-ND	11.72	9.02	7.56
35	35	19.5	3.8	2.2	ATS1190-ND	11.79	9.07	7.60
37.5	37.5	19.5	3.5	2.2	ATS1191-ND	11.93	9.17	7.69
40	40	19.5	3.2	1.7	ATS1192-ND	12.04	9.26	7.76
42.5	42.5	19.5	3.0	1.7	ATS1193-ND	12.15	9.35	7.83
45	45	19.5	2.8	1.6	ATS1194-ND	12.29	9.45	7.92

Dimensions (mm)			Thermal Resistance		Digi-Key Part No.	Price Each		
L	W	H	Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)		1	10	100
15	15	7.5	19.7	14.6	ATS1096-ND	7.35	5.44	4.50
17	17	7.5	18.2	13.9	ATS1097-ND	7.43	5.50	4.55
19	19	7.5	16.5	12.9	ATS1098-ND	7.50	5.55	4.59
21	21	7.5	11.9	8.8	ATS1099-ND	7.58	5.46	4.55
23	23	7.5	10.9	8.3	ATS1100-ND	7.65	5.51	4.59
25	25	7.5	8.6	6.1	ATS1101-ND	7.73	5.57	4.64
27	27	7.5	7.9	5.8	ATS1102-ND	7.80	5.62	4.68
29	29	7.5	7.4	5.6	ATS1103-ND	7.88	5.67	4.73
30	30	7.5	7.1	5.4	ATS1104-ND	7.95	5.73	4.77
31	31	7.5	6.9	5.3	ATS1105-ND	8.03	5.78	4.82
32.5	32.5	7.5	5.9	4.2	ATS1106-ND	8.13	5.85	4.88
33	33	7.5	5.8	4.2	ATS1107-ND	7.82	5.87	4.89
35	35	7.5	5.3	3.4	ATS1108-ND	7.87	5.91	4.92
37.5	37.5	7.5	4.9	3.3	ATS1109-ND	7.94	5.96	4.97
40	40	7.5	4.5	3.2	ATS1110-ND	8.02	6.02	5.01
42.5	42.5	7.5	4.3	3.0	ATS1111-ND	8.11	6.09	5.07
45	45	7.5	4.0	2.6	ATS1112-ND	8.18	6.14	5.12
15	15	12.5	11.7	9.4	ATS1113-ND	8.35	6.27	5.22
17	17	12.5	11.1	9.0	ATS1114-ND	8.45	6.34	5.28
19	19	12.5	10.2	8.4	ATS1115-ND	8.52	6.39	5.33
21	21	12.5	7.2	5.7	ATS1116-ND	8.62	6.47	5.39
23	23	12.5	6.7	5.4	ATS1117-ND	8.71	6.54	5.45
25	25	12.5	5.2	4.0	ATS1118-ND	8.78	6.59	5.49
27	27	12.5	4.8	3.8	ATS1119-ND	8.88	6.66	5.55
29	29	12.5	4.5	3.7	ATS1120-ND	8.98	6.74	5.61
30	30	12.5	4.4	3.6	ATS1121-ND	9.07	6.81	5.67
31	31	12.5	4.3	3.5	ATS1122-ND	9.14	6.86	5.72
32.5	32.5	12.5	3.5	2.8	ATS1123-ND	9.24	6.93	5.78
33	33	12.5	3.5	2.7	ATS1124-ND	9.29	6.97	5.81
35	35	12.5	3.0	2.2	ATS1125-ND	9.34	7.01	5.84
37.5	37.5	12.5	2.8	2.1	ATS1126-ND	9.43	7.08	5.90
40	40	12.5	2.6	2.0	ATS1127-ND	9.53	7.15	5.96
42.5	42.5	12.5	2.4	2.0	ATS1128-ND	9.62	7.02	6.02
45	45	12.5	2.1	1.6	ATS1129-ND	9.72	7.09	6.08
15	15	17.5	8.7	7.1	ATS1130-ND	9.82	7.16	6.14
17	17	17.5	8.3	6.8	ATS1131-ND	9.91	7.23	6.20
19	19	17.5	7.7	6.4	ATS1132-ND	10.01	7.30	6.26
21	21	17.5	5.4	4.3	ATS1133-ND	9.71	7.39	6.33
23	23	17.5	5.1	4.1	ATS1134-ND	9.80	7.46	6.39
25	25	17.5	3.9	3.0	ATS1135-ND	9.89	7.53	6.45
27	27	17.5	3.7	2.9	ATS1136-ND	10.01	7.62	6.53
29	29	17.5	3.5	2.8	ATS1137-ND	10.10	7.69	6.59
30	30	17.5	3.4	2.7	ATS1138-ND	10.19	7.76	6.65
31	31	17.5	3.3	2.7	ATS1139-ND	10.30	7.84	6.72
32.5	32.5	17.5	2.7	2.1	ATS1140-ND	10.40	7.91	6.78
33	33	17.5	2.7	2.1	ATS1141-ND	10.44	7.95	6.81
35	35	17.5	2.3	1.7	ATS1142-ND	10.51	8.00	6.86
37.5	37.5	17.5	2.1	1.6	ATS1143-ND	10.60	8.07	6.92
40	40	17.5	2.0	1.6	ATS1144-ND	10.72	8.16	6.99
42.5	42.5	17.5	1.9	1.5	ATS1145-ND	10.83	8.25	7.07
45	45	17.5	1.6	1.3	ATS1146-ND	10.93	8.32	7.13

**maxiGRIP™ Installation and Removal Tools**

Heat Sink Size is referring to maxiGRIP Heat Sink Attachment Assemblies compatible with tools.

Heat Sink Size (mm)		Digi-Key Part No.	Price Each	ATS Part No.
L	W			
19	19	ATS1382-ND	71.91	MGT190
21	21	ATS1383-ND	71.91	MGT210
23	23	ATS1384-ND	71.91	MGT230
25	25	ATS1385-ND	71.91	MGT250
27	27	ATS1386-ND	71.91	MGT270
29	29	ATS1387-ND	71.91	MGT290
30	30	ATS1388-ND	71.91	MGT300
31	31	ATS1389-ND	71.91	MGT310
32.5	32.5	ATS1390-ND	71.91	MGT325
33	33	ATS1391-ND	71.91	MGT330
35	35	ATS1392-ND	71.91	MGT350
37.5	37.5	ATS1393-ND	71.91	MGT375
40	40	ATS1394-ND	71.91	MGT400
42.5	42.5	ATS1395-ND	71.91	MGT425
45	45	ATS1396-ND	71.91	MGT450

(Continued)

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