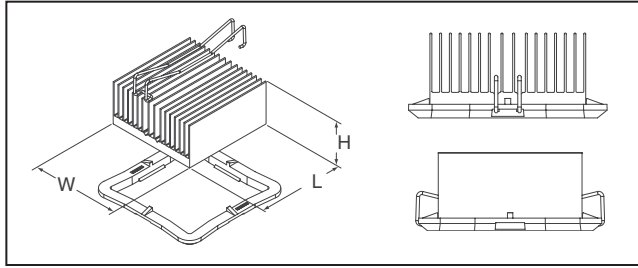


**maxiGRIP™ Heat Sink Attachment Assembly with Straight-Fin Heat Sink, Black Anodized, Thermal Tape**



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	7.05	5.37	4.60
19	19	9.5	22.0	11.6	ATS1148-ND	7.11	5.42	4.64
21	21	9.5	20.2	10.9	ATS1149-ND	7.18	5.47	4.69
23	23	9.5	16.8	7.6	ATS1150-ND	7.27	5.53	4.74
25	25	9.5	15.3	7.3	ATS1151-ND	7.33	5.58	4.79
27	27	9.5	14.1	7.0	ATS1152-ND	7.41	5.65	4.84
29	29	9.5	13.1	6.7	ATS1153-ND	7.48	5.70	4.88
30	30	9.5	12.7	6.6	ATS1154-ND	7.55	5.75	4.93
31	31	9.5	12.0	5.1	ATS1155-ND	7.63	5.81	4.98
32.5	32.5	9.5	11.3	5.0	ATS1156-ND	7.72	5.87	5.04
33	33	9.5	11.1	5.0	ATS1157-ND	7.73	5.89	5.05
35	35	9.5	10.3	4.8	ATS1158-ND	7.78	5.93	5.08
37.5	37.5	9.5	10.0	3.8	ATS1159-ND	7.86	5.99	5.13
40	40	9.5	9.1	3.7	ATS1160-ND	7.95	6.05	5.19
42.5	42.5	9.5	8.4	3.6	ATS1161-ND	8.02	6.10	5.23
45	45	9.5	8.4	2.9	ATS1162-ND	8.10	6.17	5.29
17	17	14.5	13.1	7.8	ATS1163-ND	7.60	5.79	4.96
19	19	14.5	12.0	7.4	ATS1164-ND	7.67	5.84	5.00
21	21	14.5	11.1	7.1	ATS1165-ND	7.75	5.90	5.06
23	23	14.5	8.8	4.9	ATS1166-ND	7.83	5.96	5.11
25	25	14.5	8.1	4.7	ATS1167-ND	7.90	6.01	5.16
27	27	14.5	7.6	4.5	ATS1168-ND	7.98	6.08	5.21
29	29	14.5	7.1	4.4	ATS1169-ND	8.07	6.14	5.26
30	30	14.5	6.9	4.3	ATS1170-ND	8.15	6.20	5.32
31	31	14.5	6.2	3.3	ATS1171-ND	8.23	6.27	5.37
32.5	32.5	14.5	5.9	3.2	ATS1172-ND	8.31	6.33	5.43
33	33	14.5	5.8	3.2	ATS1173-ND	8.35	6.36	5.45
35	35	14.5	5.4	3.1	ATS1174-ND	8.22	6.32	5.30
37.5	37.5	14.5	5.0	2.4	ATS1175-ND	8.30	6.38	5.35
40	40	14.5	4.6	2.4	ATS1176-ND	8.38	6.45	5.41
42.5	42.5	14.5	4.3	2.3	ATS1177-ND	8.47	6.51	5.46
45	45	14.5	4.1	1.9	ATS1178-ND	8.55	6.57	5.51
17	17	19.5	9.3	5.6	ATS1179-ND	7.94	6.04	5.18
19	19	19.5	8.4	5.3	ATS1180-ND	8.00	6.09	5.22
21	21	19.5	7.8	5.1	ATS1181-ND	8.08	6.15	5.28
23	23	19.5	7.3	4.9	ATS1182-ND	8.17	6.22	5.33
25	25	19.5	5.7	3.4	ATS1183-ND	8.25	6.28	5.38
27	27	19.5	5.3	3.3	ATS1184-ND	8.33	6.34	5.44
29	29	19.5	5.0	3.2	ATS1185-ND	8.23	6.33	5.31
30	30	19.5	4.8	3.1	ATS1186-ND	8.31	6.40	5.36
31	31	19.5	4.7	3.1	ATS1187-ND	8.40	6.46	5.42
32.5	32.5	19.5	4.1	2.3	ATS1188-ND	8.48	6.52	5.47
33	33	19.5	4.1	2.3	ATS1189-ND	8.51	6.55	5.49
35	35	19.5	3.8	2.2	ATS1190-ND	8.56	6.59	5.52
37.5	37.5	19.5	3.5	2.2	ATS1191-ND	8.66	6.66	5.58
40	40	19.5	3.2	1.7	ATS1192-ND	8.74	6.72	5.64
42.5	42.5	19.5	3.0	1.7	ATS1193-ND	8.82	6.79	5.69
45	45	19.5	2.8	1.6	ATS1194-ND	8.92	6.86	5.75

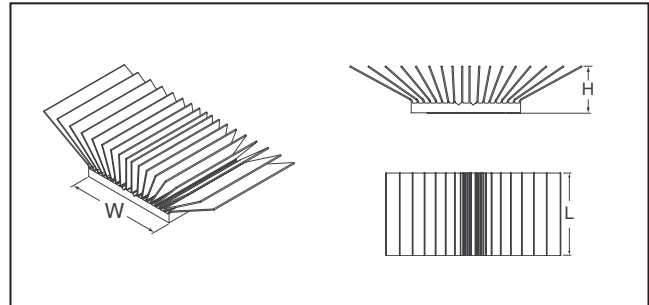
**maxiGRIP™ Installation and Removal Tools**

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	52.21	MGT190
21	21	ATS1383-ND	52.21	MGT210
23	23	ATS1384-ND	52.21	MGT230
25	25	ATS1385-ND	52.21	MGT250
27	27	ATS1386-ND	52.21	MGT270
29	29	ATS1387-ND	52.21	MGT290
30	30	ATS1388-ND	52.21	MGT300
31	31	ATS1389-ND	52.21	MGT310
32.5	32.5	ATS1390-ND	52.21	MGT325
33	33	ATS1391-ND	52.21	MGT330
35	35	ATS1392-ND	52.21	MGT350
37.5	37.5	ATS1393-ND	52.21	MGT375
40	40	ATS1394-ND	52.21	MGT400
42.5	42.5	ATS1395-ND	52.21	MGT425
45	45	ATS1396-ND	52.21	MGT450

**BGA Cooling Solutions**

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



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	5.34	3.95	3.27
17	17	7.5	18.2	13.9	ATS1097-ND	5.39	3.99	3.30
19	19	7.5	16.5	12.9	ATS1098-ND	5.45	4.03	3.34
21	21	7.5	11.9	8.8	ATS1099-ND	5.50	3.96	3.30
23	23	7.5	10.9	8.3	ATS1100-ND	5.55	4.00	3.34
25	25	7.5	8.6	6.1	ATS1101-ND	5.61	4.04	3.37
27	27	7.5	7.9	5.8	ATS1102-ND	5.66	4.08	3.40
29	29	7.5	7.4	5.6	ATS1103-ND	5.72	4.12	3.44
30	30	7.5	7.1	5.4	ATS1104-ND	5.77	4.16	3.47
31	31	7.5	6.9	5.3	ATS1105-ND	5.83	4.20	3.50
32.5	32.5	7.5	5.9	4.2	ATS1106-ND	5.90	4.25	3.54
33	33	7.5	5.8	4.2	ATS1107-ND	5.68	4.26	3.56
35	35	7.5	5.3	3.4	ATS1108-ND	5.71	4.29	3.58
37.5	37.5	7.5	4.9	3.3	ATS1109-ND	5.76	4.33	3.61
40	40	7.5	4.5	3.2	ATS1110-ND	5.82	4.37	3.64
42.5	42.5	7.5	4.3	3.0	ATS1111-ND	5.89	4.42	3.69
45	45	7.5	4.0	2.6	ATS1112-ND	5.94	4.46	3.72
15	15	12.5	11.7	9.4	ATS1113-ND	6.06	4.55	3.79
17	17	12.5	11.1	9.0	ATS1114-ND	6.13	4.60	3.84
19	19	12.5	10.2	8.4	ATS1115-ND	6.19	4.64	3.87
21	21	12.5	7.2	5.7	ATS1116-ND	6.26	4.70	3.91
23	23	12.5	6.7	5.4	ATS1117-ND	6.32	4.75	3.96
25	25	12.5	5.2	4.0	ATS1118-ND	6.37	4.79	3.99
27	27	12.5	4.8	3.8	ATS1119-ND	6.45	4.84	4.03
29	29	12.5	4.5	3.7	ATS1120-ND	6.52	4.89	4.08
30	30	12.5	4.4	3.6	ATS1121-ND	6.58	4.94	4.12
31	31	12.5	4.3	3.5	ATS1122-ND	6.64	4.98	4.15
32.5	32.5	12.5	3.5	2.8	ATS1123-ND	6.71	5.04	4.20
33	33	12.5	3.5	2.7	ATS1124-ND	6.74	5.06	4.22
35	35	12.5	3.0	2.2	ATS1125-ND	6.78	5.09	4.24
37.5	37.5	12.5	2.8	2.1	ATS1126-ND	6.85	5.14	4.28
40	40	12.5	2.6	2.0	ATS1127-ND	6.92	5.19	4.33
42.5	42.5	12.5	2.4	2.0	ATS1128-ND	6.98	5.10	4.37
45	45	12.5	2.1	1.6	ATS1129-ND	7.06	5.15	4.42
15	15	17.5	8.7	7.1	ATS1130-ND	7.13	5.20	4.46
17	17	17.5	8.3	6.8	ATS1131-ND	7.19	5.25	4.50
19	19	17.5	7.7	6.4	ATS1132-ND	7.27	5.30	4.55
21	21	17.5	5.4	4.3	ATS1133-ND	7.05	5.37	4.60
23	23	17.5	5.1	4.1	ATS1134-ND	7.11	5.42	4.64
25	25	17.5	3.9	3.0	ATS1135-ND	7.18	5.47	4.69
27	27	17.5	3.7	2.9	ATS1136-ND	7.27	5.53	4.74
29	29	17.5	3.5	2.8	ATS1137-ND	7.33	5.58	4.79
30	30	17.5	3.4	2.7	ATS1138-ND	7.40	5.63	4.83
31	31	17.5	3.3	2.7	ATS1139-ND	7.48	5.70	4.88
32.5	32.5	17.5	2.7	2.1	ATS1140-ND	7.55	5.75	4.93
33	33	17.5	2.7	2.1	ATS1141-ND	7.58	5.77	4.95
35	35	17.5	2.3	1.7	ATS1142-ND	7.63	5.81	4.98
37.5	37.5	17.5	2.1	1.6	ATS1143-ND	7.70	5.86	5.03
40	40	17.5	2.0	1.6	ATS1144-ND	7.78	5.93	5.08
42.5	42.5	17.5	1.9	1.5	ATS1145-ND	7.86	5.99	5.13
45	45	17.5	1.6	1.3	ATS1146-ND	7.94	6.04	5.18

(Continued)

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