

THERMAL EXTRUSIONS

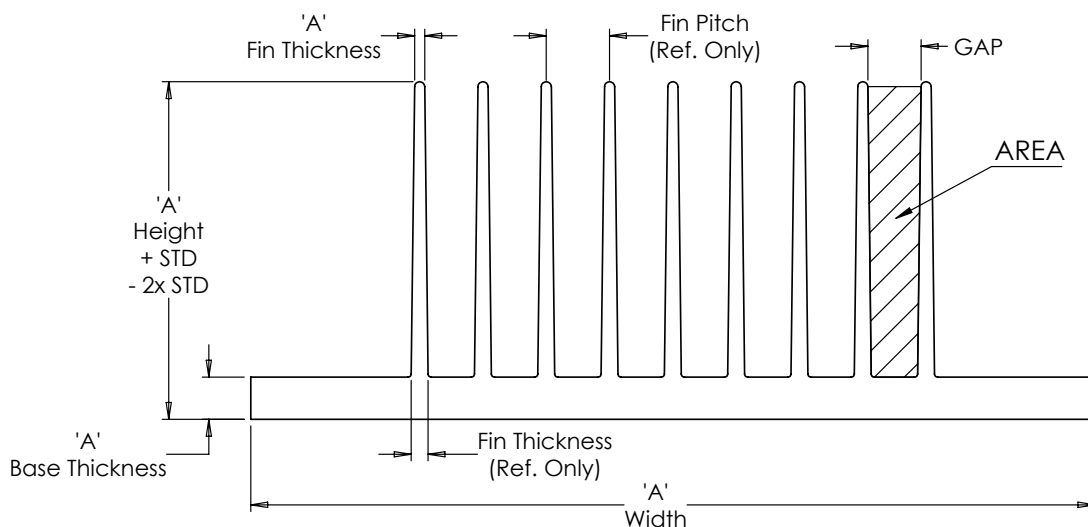
Selection Guideline 2025

REV1.0

Total Thermal Solution

HEATSINK TOLERANCE GUIDE

$$\text{RATIO} = \frac{\text{AREA OF ENCLOSED VOID}}{\text{GAP}^2}$$



*STD SURFACE ROUGHNESS ON EXTRUDED SURFACES IS 125 RMS OR BETTER

Table B. Additional Tolerances			
	Ratio < 4	Ratio > 4 and < 6	Ratio > 6
Fin Thickness (Top)	± 2x STD		
Base Thickness	± 1.5x STD	± 2x STD	
Table C. Flatness			ALL INFORMATION DISCLOSED BY THIS DOCUMENT IS CONSIDERED CONFIDENTIAL AND PROPRIETARY BY WAKEFIELD THERMAL ALL DESIGN, MANUFACTURE, USE, REPRODUCTION AND SALE RIGHTS ARE RESERVED BY WAKEFIELD THERMAL
Width [in]	Flatness [in/in]		
Up to 5.999	0.006		
6.000-7.999	0.008		
8.000-9.999	0.010		

Wakefield Thermal's aluminum extrusion complies with the standard commercial tolerances established by the Aluminum Associations, Inc. The tolerances for an extrusion dimension is a function of the die size of the particular dimension and the diameter of the extrusion die. Table A is a guide for most dimensional tolerances. Tolerances for some extreme ratios and some larger sizes tend to exceed the tolerances listed in the table.

We welcome the opportunity for any heatsink profiles.

Table A. Typical Tolerances for Extruded Aluminum	
Dimension A [in]	± Tolerance (up to 10" Circle Size) [in]
0.000-0.124	0.008
0.125-0.249	0.009
0.250-0.499	0.010
0.500-0.749	0.011
0.750-0.999	0.012
1.000-1.499	0.014
1.500-1.999	0.016
2.000-3.999	0.026
4.000-5.999	0.036
6.000-7.999	0.046
8.000-9.999	0.056

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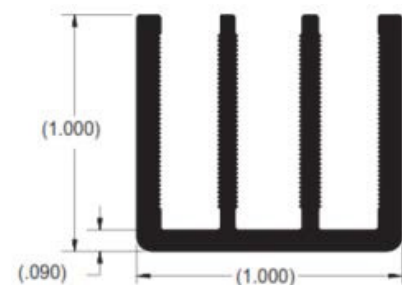
1.....	Aluminum Flatback • DC/DC Heat Sink • BGA Style Heat Sinks • High Aspect
20.....	SCR Press Pack Extrusions
21.....	Power Modules
23.....	H&T Style Mounting Shelf Heat Sinks
25.....	Center/Multi Channel Heat Sinks
26.....	Flatback w/ Mounting Feet Heat Sinks
29.....	Notes

ALUMINUM FLATBACK

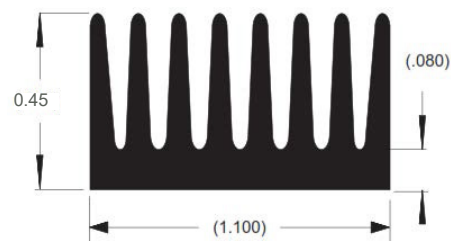
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

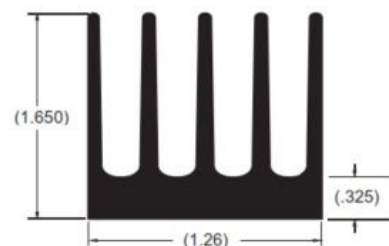
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127697	1.00" X 12" FLATBACK HEATSINK EXTRUSION 14240	1	1	12	6.4
127747	1.00 " X 36" FLATBACK HEATSINK EXTRUSION 14240	1	1	36	6.4



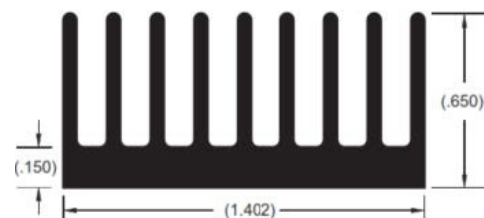
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125283	1.10" WIDE X 12" BGA HEATSINK EXTRUSION 16240 XX8052-45	1.1	0.45	12	9
125284	1.10" WIDE X 36" BGA HEATSINK EXTRUSION 16240 XX8052-45	1.1	0.45	36	9



Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127698	1.26" X 12" FLATBACK HEATSINK EXTRUSION 10979	1.26	1.65	12	4.4
127748	1.26" X 36" FLATBACK HEATSINK EXTRUSION 10979	1.26	1.65	36	4.4



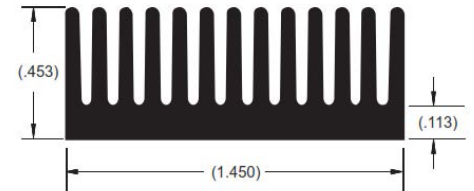
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127692	1.40" WIDE X 12" BGA HEATSINK EXTRUSION 11381	1.4	0.65	12	6.2
127742	1.40" WIDE X 36" BGA HEATSINK EXTRUSION 11381	1.4	0.65	36	6.2



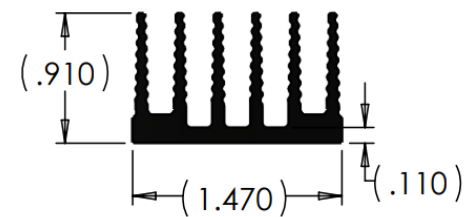
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

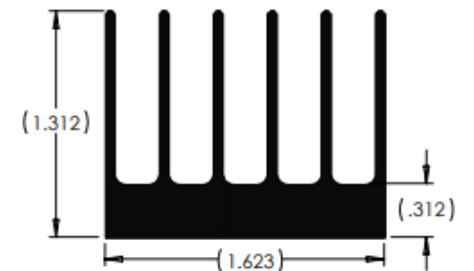
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125361	1.45" WIDE X 36" DC/DC HEATSINK EXTRUSION 14363	1.45	0.46	12	6.2
125362	1.45" WIDE X 36" DC/DC HEATSINK EXTRUSION 14363	1.45	0.46	36	6.2



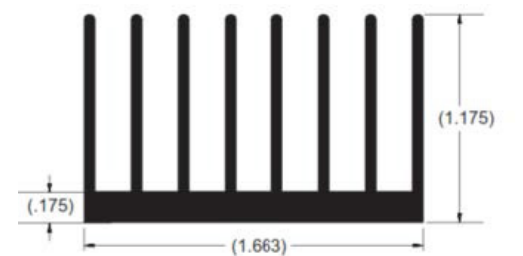
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127694	1.47" WIDE X 12" DC/DC HEATSINK EXTRUSION 14193	1.47	0.91	12	5.4
127744	1.47" WIDE X 36" DC/DC HEATSINK EXTRUSION 14193	1.47	0.91	36	5.4



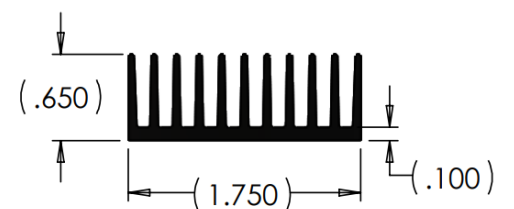
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125295	1.625" WIDE X 12" FLATBACK HEATSINK 16079 XX2014	1.625	1.312	12	3.2
125296	1.625" WIDE X 36" FLATBACK HEATSINK 16079 XX2014	1.625	1.312	36	3.2



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127693	1.66" WIDE X 12" BGA HEATSINK EXTRUSION 12704	1.66	1.175	12	3.6
127743	1.66" WIDE X 36" BGA HEATSINK EXTRUSION 12704	1.66	1.175	36	3.6



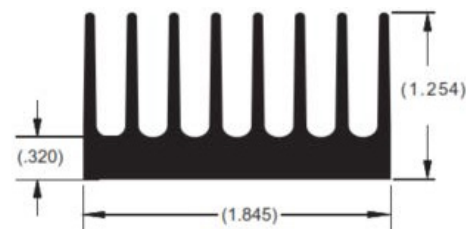
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125289	1.75" WIDE X 12" BGA HEATSINK EXTRUSION 16249 XX8260-65	1.75	0.65	12	7.8
125290	1.75" WIDE X 36" BGA HEATSINK EXTRUSION 16249 XX8260-65	1.75	0.65	36	7.8



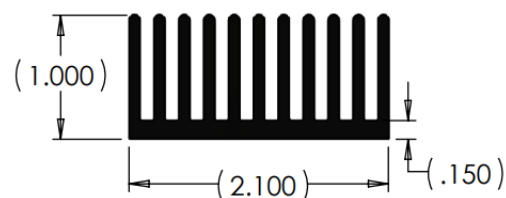
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

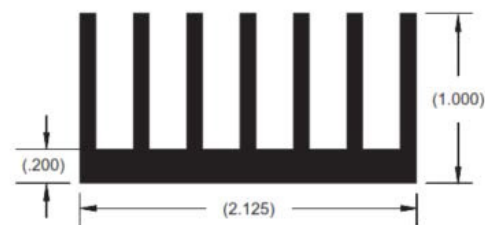
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127699	1.845" WIDE X 12" FLATBACK HEATSINK XX7293 16387	1.845	1.254	12	3.4
127749	1.845" WIDE X 36" FLATBACK HEATSINK XX7293 16387	1.845	1.254	36	3.4



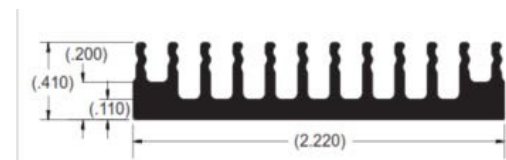
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125307	2.10" WIDE X 12" BGA HEATSINK EXTRUSION 12554 XX8355-100	2.1	1	12	3.8
125308	2.10" WIDE X 36" BGA HEATSINK EXTRUSION 12554 XX8355-100	2.1	1	36	3.8



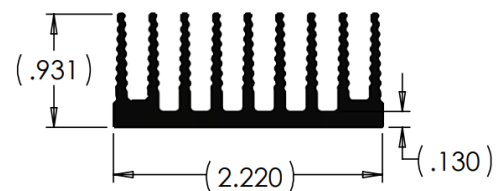
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127700	2.125" WIDE X 12" FLATBACK HEATSINK 14249	2.125	1	12	4.4
127750	2.125" WIDE X 36" FLATBACK HEATSINK 14249	2.125	1	36	4.4



Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127695	2.22" WIDE X 12" DC/DC HEATSINK EXTRUSION 14772	2.22	0.41	12	7
127745	2.22" WIDE X 36" DC/DC HEATSINK EXTRUSION 14772	2.22	0.41	36	7



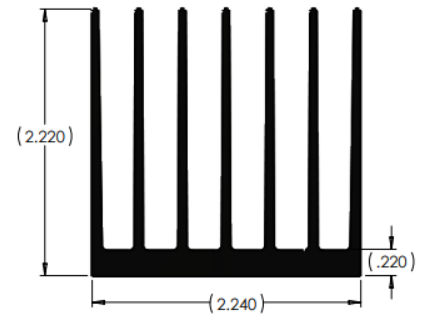
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125343	2.22" WIDE X 12" DC/DC HEATSINK EXTRUSION 14192	2.22	0.93	12	3.66
125344	2.22" WIDE X 36" DC/DC HEATSINK EXTRUSION 14192	2.22	0.93	36	3.66



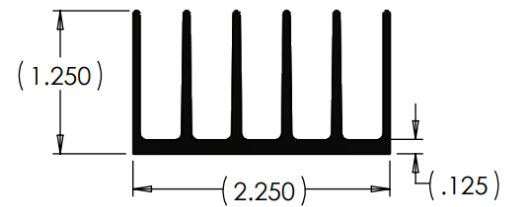
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

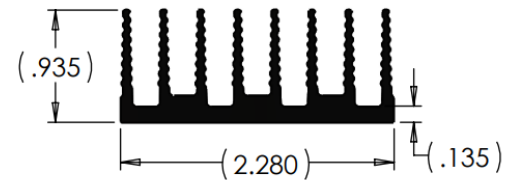
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127701	2.24" WIDE X 12" FLATBACK HEATSINK 13017	2.24	2.22	12	2.4
127751	2.24" WIDE X 36" FLATBACK HEATSINK 13017	2.24	2.22	36	2.4



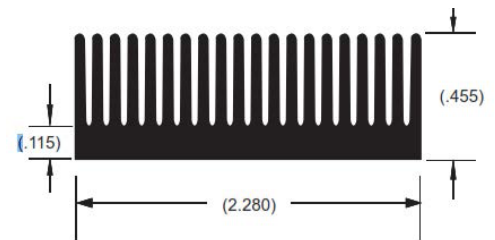
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127702	2.25" WIDE X 12" FLATBACK HEATSINK 6469	2.25	1.25	12	3.8
127752	2.25" WIDE X 36" FLATBACK HEATSINK 6469	2.25	1.25	36	3.8



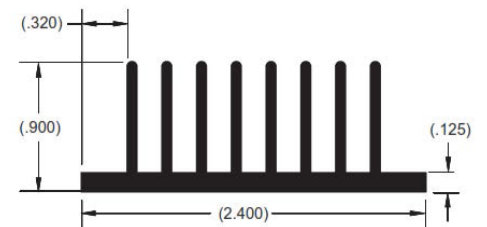
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125349	2.28" WIDE X 12" DC/DC HEATSINK EXTRUSION 14228	2.28	0.94	12	4.0
125350	2.28" WIDE X 36" DC/DC HEATSINK EXTRUSION 14228	2.28	0.94	36	4.0



Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125355	2.28" WIDE X 36" DC/DC HEATSINK EXTRUSION 14362	2.28	0.455	12	4
125356	2.28" WIDE X 12" DC/DC HEATSINK EXTRUSION 14362	2.28	0.455	36	4



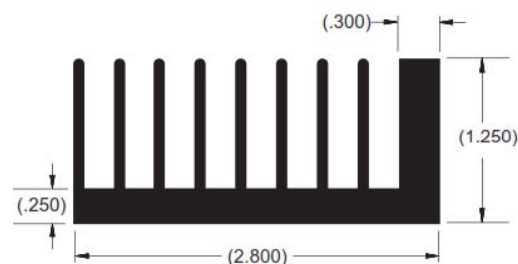
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125331	2.40" WIDE X 12" DC/DC HEATSINK EXTRUSION 12613	2.4	0.9	12	4.1
125332	2.40" WIDE X 36" DC/DC HEATSINK EXTRUSION 12613	2.4	0.9	36	4.1



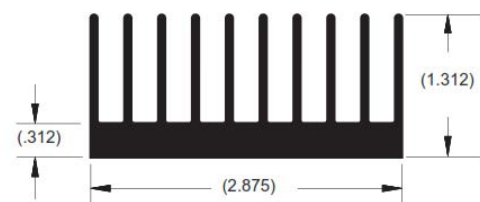
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

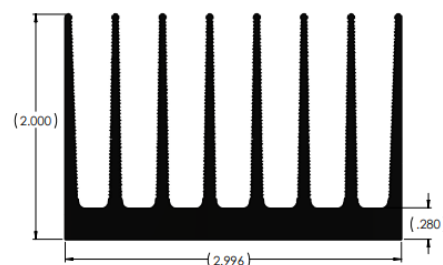
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125301	2.80" WIDE X 12" FLATBACK HEATSINK 11201 XX6998	2.8	1.25	12	2.9
125302	2.80" WIDE X 36" FLATBACK HEATSINK 11201 XX6998	2.8	1.25	36	2.9



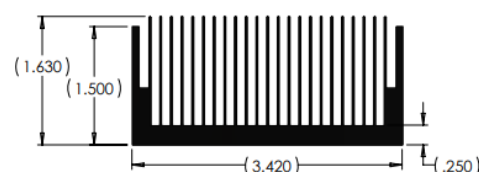
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125313	2.875" WIDE X 12" FLATBACK HEATSINK 16078 XX2013	2.875	1.312	12	2.3
125314	2.875" WIDE X 36" FLATBACK HEATSINK 16078 XX2013	2.875	1.312	36	2.3



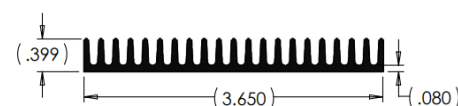
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
125319	3" WIDE X 12" FLATBACK HEATSINK 9099	2.996	2	12	1.5
125320	3" WIDE X 36" FLATBACK HEATSINK 9099	2.996	2	36	1.5



Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
122551	High Aspect Heat Sink for Power Module SF17031-12.32	3.42	1.63	12.32	0.95



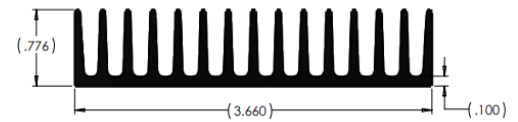
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127707	3.65" WIDE X 12" FLATBACK HEATSINK 13240	3.65	0.399	12	3.6
127753	3.65" WIDE X 36" FLATBACK HEATSINK 13240	3.65	0.399	36	3.6



THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127708	3.66" WIDE X 12" FLATBACK HEATSINK XX2019 9797	3.66	0.774	12	2.2
127754	3.66" WIDE X 36" FLATBACK HEATSINK XX2019 9797	3.66	0.774	36	2.2



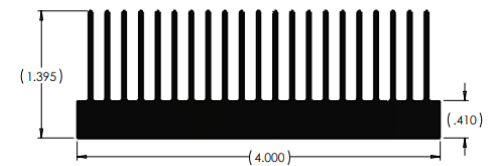
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125325	3.79" WIDE X 12" FLATBACK HEATSINK 16304 XX5079	3.79	2	12	1.5
125326	3.79" WIDE X 36" FLATBACK HEATSINK 16304 XX5079	3.79	2	36	1.5



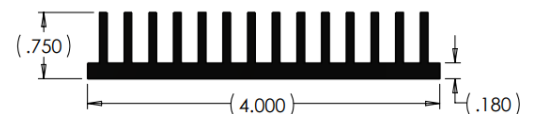
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122547	High Aspect Heat Sink for Power Module SF17047-15.25	3.98	1.88	15.25	0.48



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127709	4.00" WIDE X 12" FLATBACK HEATSINK 16403	4	1.395	12	3.4
127755	4.00" WIDE X 36" FLATBACK HEATSINK 16403	4	1.395	36	3.4



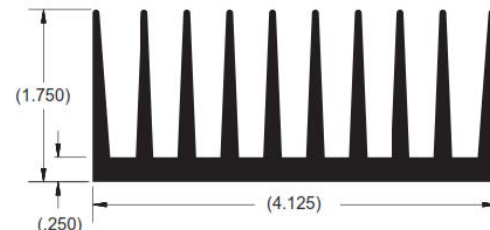
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127710	4.00" WIDE X 12" FLATBACK HEATSINK 16573	4	0.75	12	3.7
127756	4.00" WIDE X 36" FLATBACK HEATSINK 16573	4	0.75	36	3.7



THERMAL EXTRUSIONS CUT TO LENGTH

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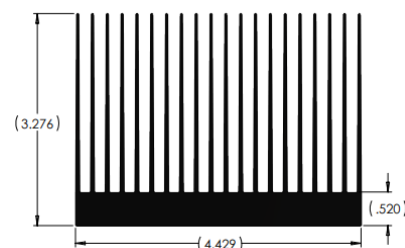
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125367	4.125" X 12" FLATBACK HEATSINK 2656 XX5138	4.125	1.75	12	1.9
125368	4.125" X 36" FLATBACK HEATSINK 2656 XX5138	4.125	1.75	36	1.9



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125373	4.375" WIDE X 12" FLATBACK HEATSINK 16296 XX1527	4.375	1.29	12	1.4
125374	4.375" WIDE X 36" FLATBACK HEATSINK 16296 XX1527	4.375	1.29	36	1.4



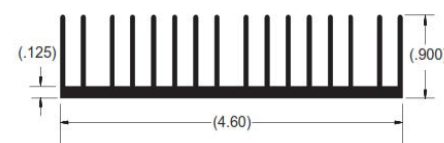
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125562	4.429" WIDE X 11.81" HIGH ASPECT HEATSINK 17080-11.81	4.429	3.276	11.81	0.59



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127711	4.461" WIDE X 12" FLATBACK HEATSINK 16365	4.461	1.31	12	1.8
127757	4.461" WIDE X 36" FLATBACK HEATSINK 16365	4.461	1.31	36	1.8



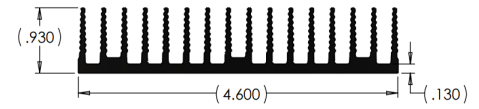
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125337	4.60" WIDE X 12" DC/DC HEATSINK EXTRUSION 12614	4.6	0.9	12	2.1
125338	4.60" WIDE X 36" DC/DC HEATSINK EXTRUSION 12614	4.6	0.9	36	2.1



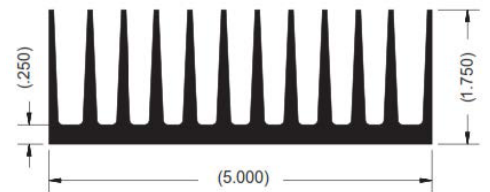
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127696	4.60" WIDE X 12" DC/DC HEATSINK EXTRUSION 14229	4.6	0.93	12	1.9
127746	4.60" WIDE X 36" DC/DC HEATSINK EXTRUSION 14229	4.6	0.93	36	1.9



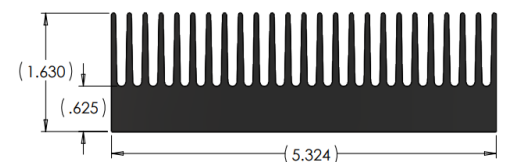
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125397	5.00" WIDE X 12" FLATBACK HEATSINK 16338 XX2065	5	1.75	12	1.6
125398	5.00" WIDE X 36" FLATBACK HEATSINK 16338 XX2065	5	1.75	36	1.6



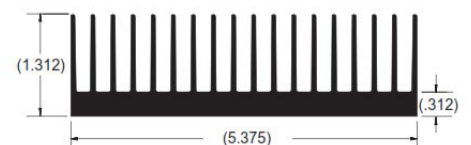
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127712	5.00" WIDE X 12" FLATBACK HEATSINK 16017	5	1.65	12	1.1
127758	5.00" WIDE X 36" FLATBACK HEATSINK 16017	5	1.65	36	1.1



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122254	19671 Profile Cut to 12 Inches	5.324	1.63	12	1.18



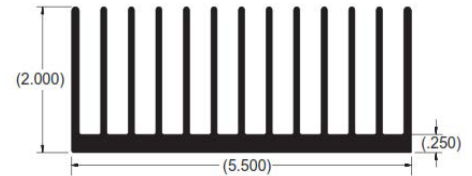
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125403	5.375" X 12" FLATBACK HEATSINK 6037 XX5045	5.375	1.312	12	1.8
125404	5.375" X 36" FLATBACK HEATSINK 6037 XX5045	5.375	1.312	36	1.8



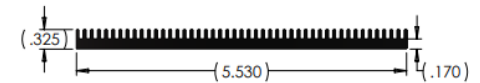
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125409	5.50" X 12" FLATBACK HEATSINK 13760 XX2199	5.5	2	12	1.2
125410	5.50" X 36" FLATBACK HEATSINK 13760 XX2199	5.5	2	36	1.2



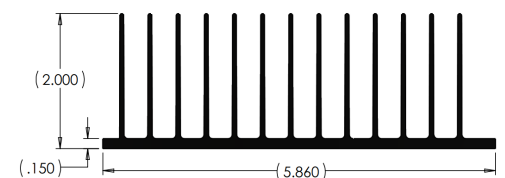
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127713	5.53" X 12" FLATBACK HEATSINK 19810	5.53	0.325	12	2.82
127759	5.53" X 36" FLATBACK HEATSINK 19810	5.53	0.325	36	2.82



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127714	5.748" WIDE X 12" FLATBACK HEATSINK XX8867 19155	5.748	0.905	12	1.57
127760	5.748" WIDE X 12" FLATBACK HEATSINK XX8867 19155	5.748	0.905	36	1.57



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127715	5.86" X 12" FLATBACK HEATSINK 14461	5.86	2	12	1.1
127761	5.86" X 36" FLATBACK HEATSINK 14461	5.86	2	36	1.1



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127716	5.86" X 12" FLATBACK HEATSINK 19343	5.86	1.988	12	0.94
127762	5.86" X 36" FLATBACK HEATSINK 19343	5.86	1.988	36	0.94



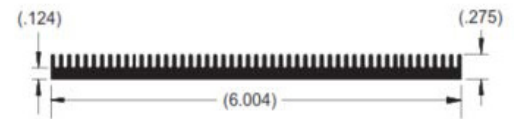
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

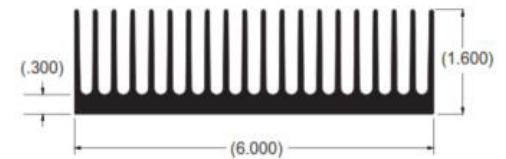
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127691	6.00" WIDE X 12" LONG HIGH ASPECT HEATSINK 19767	6	2.75	12	0.49
127786	6.00" WIDE X 36" LONG HIGH ASPECT HEATSINK 19767	6	2.75	36	0.49



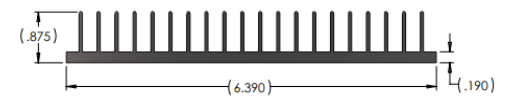
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127717	6.00" WIDE X 12" FLATBACK HEATSINK 12054	6	0.275	12	2.8
127763	6.00" WIDE X 36" FLATBACK HEATSINK 12054	6	0.275	36	2.8



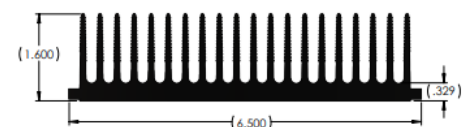
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127718	6.00" WIDE X 12" FLATBACK HEATSINK 13796	6	1.6	12	1.1
127764	6.00" WIDE X 36" FLATBACK HEATSINK 13796	6	1.6	36	1.1



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127719	6.39" WIDE X 12" FLATBACK HEATSINK 21848	6.39	0.875	12	1.75
127765	6.39" WIDE X 36" FLATBACK HEATSINK 21848	6.39	0.875	36	1.75



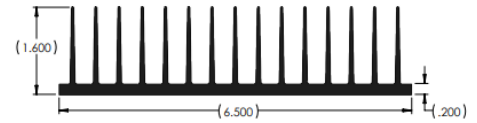
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127721	6.50" X 12" FLATBACK HEATSINK XX8403 16499	6.5	1.6	12	1.07
127767	6.50" X 36" FLATBACK HEATSINK XX8403 16499	6.5	1.6	36	1.07



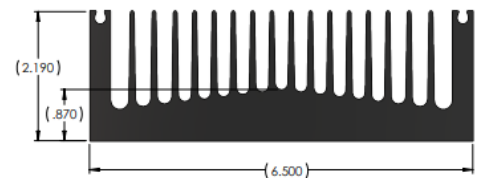
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

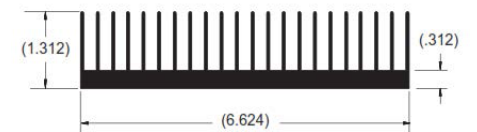
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125415	6.50" X 12" FLATBACK HEATSINK 6664 XX4509	6.5	1.6	12	1.3
125416	6.50" X 36" FLATBACK HEATSINK 6664 XX4509	6.5	1.6	36	1.3



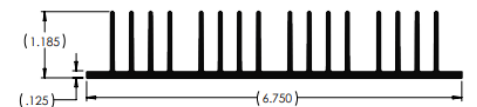
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127720	6.50" X 12" FLATBACK HEATSINK 16222	6.5	2.19	12	1.4
127766	6.50" X 36" FLATBACK HEATSINK 16222	6.5	2.19	36	1.4



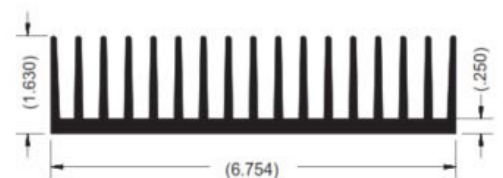
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125421	6.624" WIDE X 12" FLATBACK HEATSINK 16524 XX7031	6.624	1.312	12	1.3
125422	6.624" WIDE X 36" FLATBACK HEATSINK 16524 XX7031	6.624	1.312	36	1.3



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127722	6.75" WIDE X 12" FLATBACK HEATSINK 4955	6.75	1.185	12	1.37
127768	6.75" WIDE X 36" FLATBACK HEATSINK 4955	6.75	1.185	36	1.37



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127723	6.75" WIDE X 12" FLATBACK HEATSINK XX7029 12116	6.75	1.63	12	1.3
127771	6.75" WIDE X 36" FLATBACK HEATSINK XX7029 12116	6.75	1.63	36	1.3



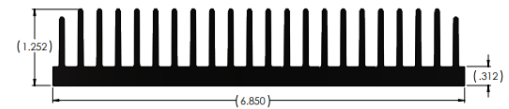
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

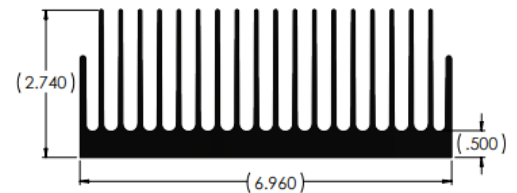
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125565	6.818" WIDE X 11.81" HIGH ASPECT HEATSINK 19333-12	6.818	3.5	12	0.34



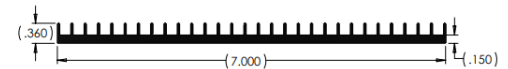
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127724	6.85" WIDE X 12" FLATBACK HEATSINK 16335	6.85	1.252	12	1.31
127772	6.85" WIDE X 36" FLATBACK HEATSINK 16335	6.85	1.252	36	1.31



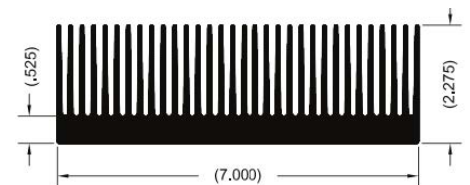
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122255	6.961" WIDE X 12" FLATBACK HEATSINK 13694 XX6274	6.961	2.74	12	0.8
125643	6.961" WIDE X 36" FLATBACK HEATSINK 13694 XX6274	6.961	2.74	36	0.8



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127725	7.00" WIDE X 12" FLATBACK HEATSINK 19493	7	0.36	12	2.69
127773	7.00" WIDE X 36" FLATBACK HEATSINK 19493	7	0.36	36	2.69



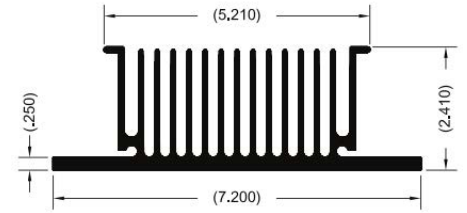
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122256	7.00" WIDE X 12" FLATBACK HEATSINK 15837	7	2.275	12	0.3
125645	7.00" WIDE X 36" FLATBACK HEATSINK 15837	7	2.275	36	0.3



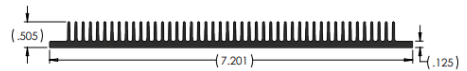
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

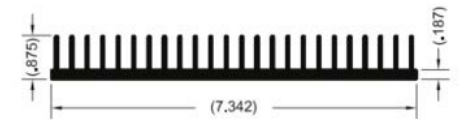
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125512	7.20" WIDE X 36" FLATBACK HEATSINK 16316 XX6438-2	7.2	2.41	36	0.9



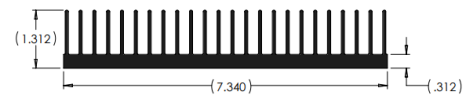
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127726	7.201" WIDE X 12" FLATBACK HEATSINK 12414	7.201	0.505	12	1.5
127774	7.201" WIDE X 36" FLATBACK HEATSINK 12414	7.201	0.505	36	1.5



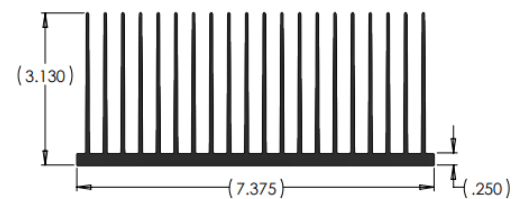
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127727	7.34" WIDE X 12" FLATBACK HEATSINK XX5523 14433	7.34	0.875	12	1.8
127775	7.34" WIDE X 36" FLATBACK HEATSINK XX5523 14433	7.34	0.875	36	1.8



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125430	7.343" WIDE X 12" FLATBACK HEATSINK 13454 XX4771	7.343	1.312	12	1.1
125431	7.343" WIDE X 36" FLATBACK HEATSINK 13454 XX4771	7.343	1.312	36	1.1



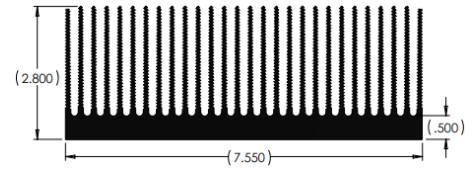
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122258	7.375" WIDE X 12" HIGH ASPECT EXTRUSION 15817 XX5113	7.375	3.136	12	0.68
125649	7.375" WIDE X 36" HIGH ASPECT EXTRUSION 15817 XX5113	7.375	3.136	36	0.68



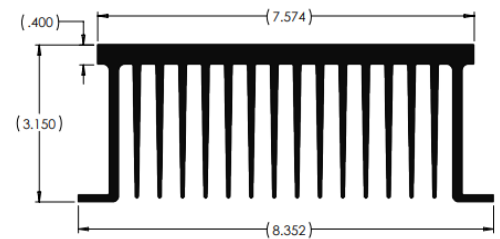
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

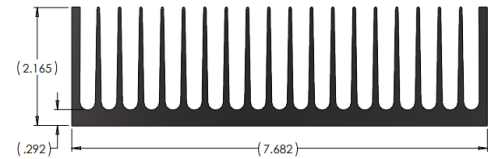
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122264	7.55" WIDE X 12" HIGH ASPECT EXTRUSION 19832	7.55	2.8	12	0.34
125659	7.55" WIDE X 36" HIGH ASPECT EXTRUSION 19832	7.55	2.8	36	0.34



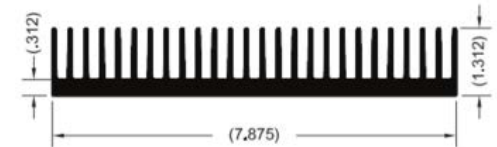
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125601	7.574" WIDE X 12" FLATBACK HEATSINK 21910	7.574	3.15	12	0.65
125602	7.574" WIDE X 36" FLATBACK HEATSINK 21910	7.574	3.15	36	0.65



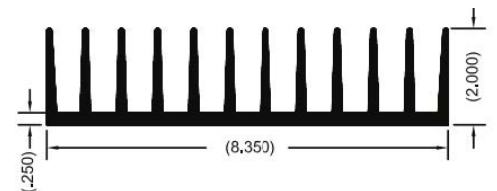
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122257	19275 Profile Cut to 12 Inches	7.682	2.165	12	0.80
125647	19275 Profile Cut to 36 Inches	7.682	2.165	36	0.80



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127728	7.875" WIDE X 12" FLATBACK HEATSINK XX2009 16639	7.875	1.312	12	1.2
127776	7.875" WIDE X 12" FLATBACK HEATSINK XX2009 16639	7.875	1.312	36	1.2



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125436	8.35" WIDE X 12" FLATBACK HEATSINK 13668 XX4937	8.35	2	12	0.9
125437	8.35" WIDE X 36" FLATBACK HEATSINK 13668 XX4937	8.35	2	36	0.9



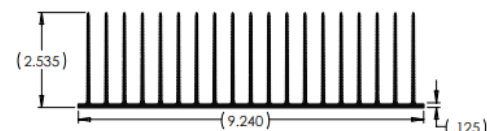
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

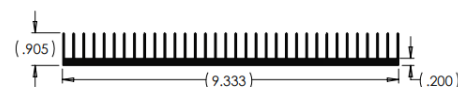
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122263	8.40" WIDE X 12" FLATBACK HEATSINK 16681	8.4	1.4	12	0.65
125657	8.40" WIDE X 36" FLATBACK HEATSINK 16681	8.4	1.4	36	0.65



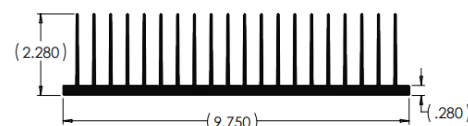
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122260	9.24" WIDE X 12" FLATBACK HEATSINK 19035	9.24	2.535	12	0.62
125651	9.24" WIDE X 36" FLATBACK HEATSINK 19035	9.24	2.535	36	0.62



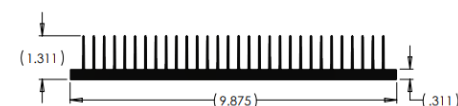
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127684	9.333" WIDE X 12" FLATBACK HEATSINK 16386	9.333	0.905	12	1.04
127777	9.333" WIDE X 12" FLATBACK HEATSINK 16386	9.333	0.905	36	1.04



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125520	9.75" WIDE X 12" FLATBACK HEATSINK 16473 XX5384	9.75	2.28	12	0.75
125521	9.75" WIDE X 36" FLATBACK HEATSINK 16473 XX5384	9.75	2.28	36	0.75



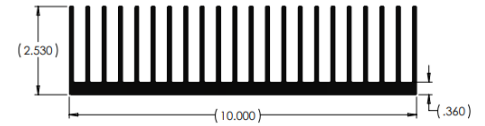
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125442	9.875" WIDE X 12" FLATBACK HEATSINK 16329 XX1703	9.875	1.31	12	0.91
125443	9.875" WIDE X 36" FLATBACK HEATSINK 16329 XX1703	9.875	1.31	36	0.91



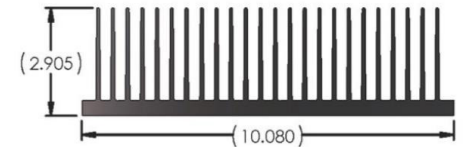
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

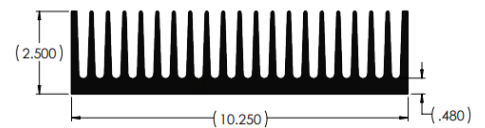
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125592	10" WIDE X 12" FLATBACK HEATSINK 13953	10	2.53	12	0.6
125593	10" WIDE X 36" FLATBACK HEATSINK 13953	10	2.53	36	0.6



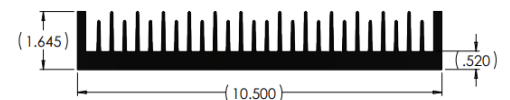
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125571	10.08" WIDE X 12" HIGH ASPECT EXTRUSION 21052	10.08	2.905	12	0.51
125572	10.08" WIDE X 36" HIGH ASPECT EXTRUSION 21052	10.08	2.905	36	0.51



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125448	10.25" WIDE X 12" FLATBACK HEATSINK 14236 XX5772	10.25	2.5	12	0.71
125449	10.25" WIDE X 36" FLATBACK HEATSINK 14236 XX5772	10.25	2.5	36	0.71



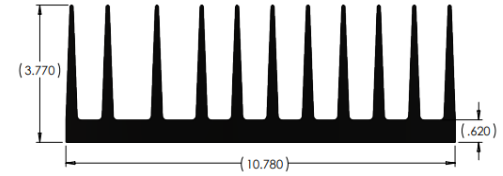
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125454	10.50" WIDE X 12" FLATBACK HEATSINK 16990 XX2904	10.5	1.645	12	0.93
125455	10.50" WIDE X 36" FLATBACK HEATSINK 16990 XX2904	10.5	1.645	36	0.93



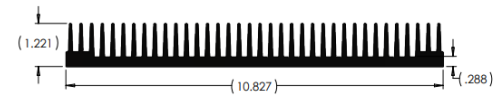
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

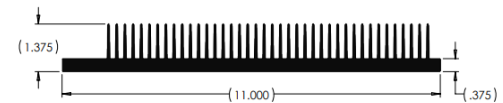
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125460	10.78" WIDE X 12" FLATBACK HEATSINK XX4559	10.78	3.77	12	0.5
125461	10.78" WIDE X 36" FLATBACK HEATSINK XX4559	10.78	3.77	36	0.5



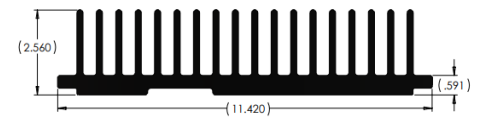
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125577	10.827" WIDE X 12" FLATBACK HEATSINK 19572	10.827	1.221	12	0.83
125578	10.827" WIDE X 36" FLATBACK HEATSINK 19572	10.827	1.221	36	0.83



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122261	11.00" WIDE X 12" FLATBACK HEATSINK 19584	11	1.375	12	1.43
125653	11.00" WIDE X 36" FLATBACK HEATSINK 19584	11	1.375	36	1.43



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127686	11.420" WIDE X 12" FLATBACK HEATSINK XX10178	11.42	2.559	12	0.76
127779	11.578" WIDE X 36" FLATBACK HEATSINK XX10178	11.42	2.559	36	0.76



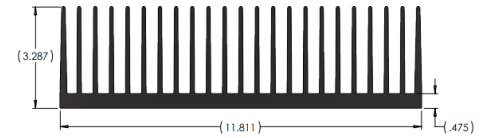
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127687	11.578" WIDE X 12" FLATBACK HEATSINK XX82266	11.578	1.32	12	0.83
127780	11.578" WIDE X 36" FLATBACK HEATSINK XX82266	11.578	1.32	36	0.83



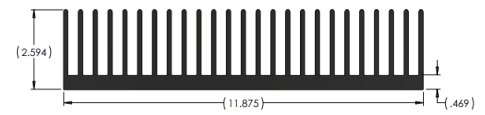
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

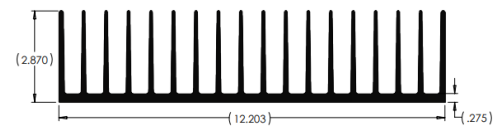
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125625	11.811" WIDE X 12" FLATBACK HEATSINK 19740	11.811	3.287	12	0.46
125626	11.811" WIDE X 36" FLATBACK HEATSINK 19740	11.811	3.287	36	0.46



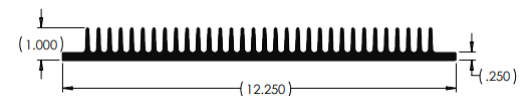
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125619	11.875" WIDE X 12" FLATBACK HEATSINK 17099	11.875	2.594	12	0.4
125620	11.875" WIDE X 36" FLATBACK HEATSINK 17099	11.875	2.594	36	0.4



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127688	12.203" WIDE X 12" FLATBACK HEATSINK 16632	12.203	2.87	12	0.7
127781	12.203" WIDE X 36" FLATBACK HEATSINK 16632	12.203	2.87	36	0.7



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
122262	12.25" WIDE X 12" FLATBACK HEATSINK 19152 XX4471	12.25	1	12	1.3
125655	12.25" WIDE X 36" FLATBACK HEATSINK 19152 XX4471	12.25	1	36	1.3



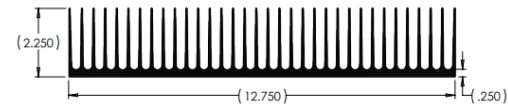
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125631	12.75" WIDE X 12" FLATBACK HEATSINK XX2170	12.75	1.35	12	0.6
125632	12.75" WIDE X 36" FLATBACK HEATSINK XX2170	12.75	1.35	36	0.6



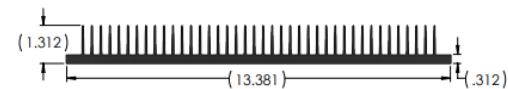
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

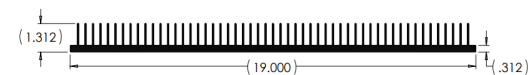
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125469	12.75" WIDE X 12" FLATBACK HEATSINK XX2044	12.75	2.25	12	0.56
125470	12.75" WIDE X 36" FLATBACK HEATSINK XX2044	12.75	2.25	36	0.56



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125475	13.381" WIDE X 12" FLATBACK HEATSINK XX5429	13.381	1.312	12	0.65
125476	13.381" WIDE X 36" FLATBACK HEATSINK XX5429	13.381	1.312	36	0.65



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
131686	19.00" WIDE X 36" FLATBACK HEATSINK 17155	19	1.312	12	0.49
131687	19.00" WIDE X 36" FLATBACK HEATSINK 17155	19	1.312	36	0.49

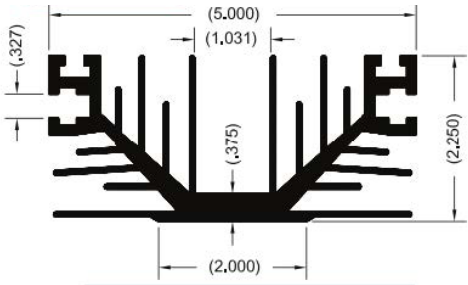


SCR PRESS PACK EXTRUSIONS

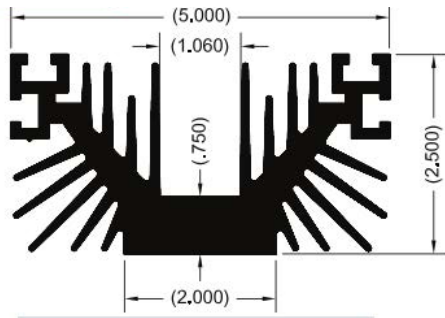
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

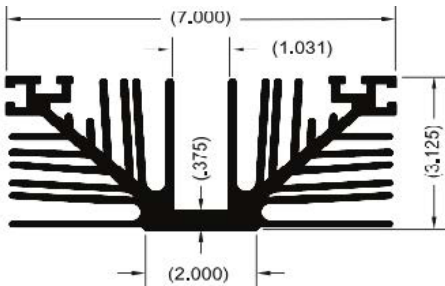
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125526	5.00" WIDE X 12" PRESSPACK SCR EXTRUSION 16082 XX3560-2	5	2.25	12	1.4
125527	5.00" WIDE X 36" PRESSPACK SCR EXTRUSION 16082 XX3560-2	5	2.25	36	1.4



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125532	5.00" WIDE X 12" PRESSPACK SCR EXTRUSION 16565 XX5732	5	2.5	12	1.39
125533	5.00" WIDE X 12" PRESSPACK SCR EXTRUSION 16565 XX5732	5	2.5	36	1.39



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125538	7.00" WIDE X 12" PRESSPACK SCR EXTRUSION 16348 XX3559-2	7	3.125	12	0.85
125539	7.00" WIDE X 36" PRESSPACK SCR EXTRUSION 16348 XX3559-2	7	3.125	36	0.85

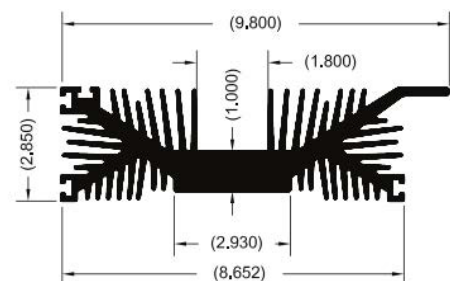
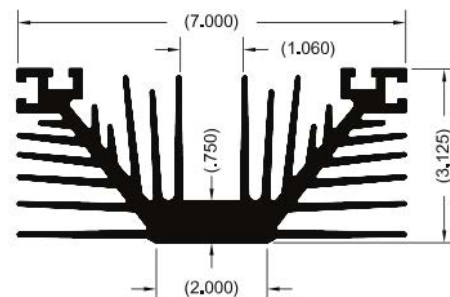


THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125544	7.00" WIDE X 12" PRESSPACK SCR EXTRUSION 16235 XX5733	7	3.125	12	0.88
125545	7.00" WIDE X 36" PRESSPACK SCR EXTRUSION 16235 XX5733	7	3.125	36	0.88

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125550	9.80" WIDE X 12" PRESSPACK SCR EXTRUSION XX5735	9.8	2.85	12	0.71
125551	9.80" WIDE X 36" PRESSPACK SCR EXTRUSION XX5735	9.8	2.85	36	0.71

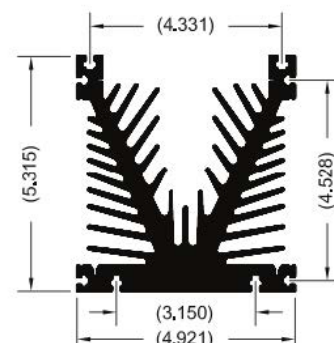


POWER MODULES

THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

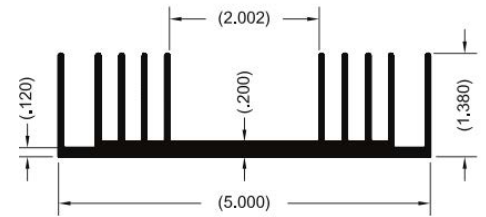
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125556	4.921" WIDE X 12" POWER MODULE EXTRUSION 13698 XX5658	4.921	5.315	12	0.8
125557	4.921" WIDE X 36" POWER MODULE EXTRUSION 13698 XX5658	4.921	5.315	36	0.8



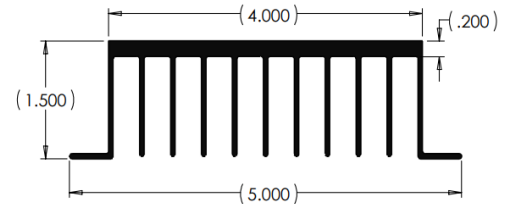
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

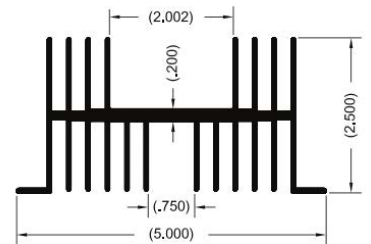
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125391	5.00" WIDE X 12" POWER MODULE EXTRUSION 19589 XX7331	5	1.38	12	3
125392	5.00" WIDE X 36" POWER MODULE EXTRUSION 19589 XX7331	5	1.38	36	3



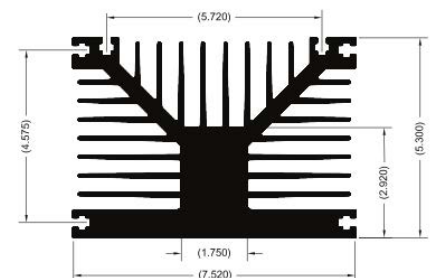
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125379	5.00" WIDE X 12" POWER MODULE EXTRUSION 16414 XX7332	5	1.5	12	2.5
125380	5.00" WIDE X 36" POWER MODULE EXTRUSION 16414 XX7332	5	1.5	36	2.5



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125385	5.00" WIDE X 12" POWER MODULE EXTRUSION 16936 XX7330	5	2.5	12	1.7
125386	5.00" WIDE X 36" POWER MODULE EXTRUSION 16936 XX7330	5	2.5	36	1.7



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125613	7.52" WIDE X 12" POWER MODULE EXTRUSION 17003	7.52	5.3	12	0.65
125614	7.52" WIDE X 36" POWER MODULE EXTRUSION 17003	7.52	5.3	36	0.65

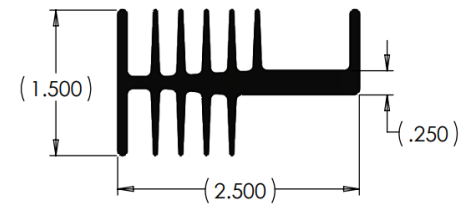


H&T STYLE/MOUNTING SHELF HEAT SINKS

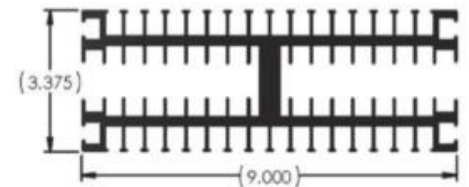
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

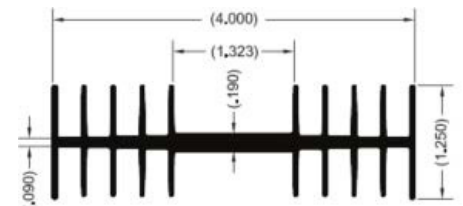
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127741	2.5" WIDE X 12" T STYLE EXTRUSION 19342	2.5	1.5	12	3.49
127799	2.5" WIDE X 12" T STYLE EXTRUSION 19342	2.5	1.5	36	3.49



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127689	3.375" X 12" H STYLE HEATSINK 17086	3.375	9	12	0.59
127782	3.375" X 36" H STYLE HEATSINK 17086	3.375	9	36	0.59



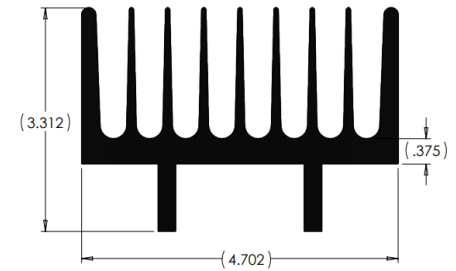
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127690	4.000" X 12" H STYLE HEATSINK XX4101 16299	4	1.25	12	2.3
127783	4.000" X 36" H STYLE HEATSINK XX4101 16299	4	1.25	36	2.3



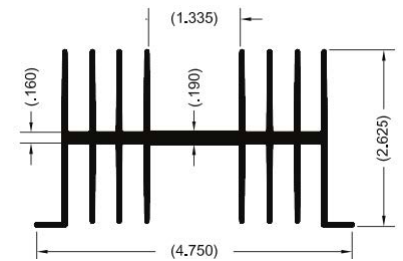
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

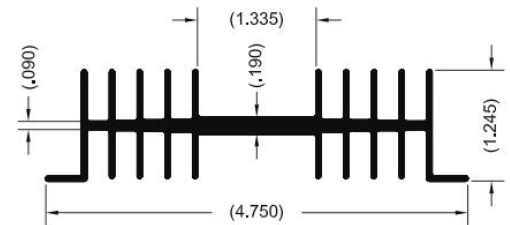
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125637	4.702" WIDE X 12" MOUNTING SHELF EXTRUSION 14264	4.702	3.312	12	1.8
125638	4.702" WIDE X 12" MOUNTING SHELF EXTRUSION 14264	4.702	3.312	36	1.8



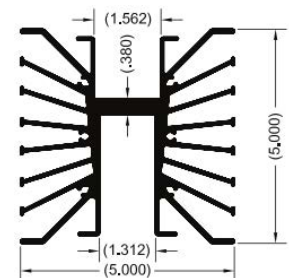
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125493	4.75" X 12" H STYLE HEATSINK 5410 XX1025	4.75	2.625	12	1.3
125494	4.75" X 36" H STYLE HEATSINK 5410 XX1025	4.75	2.625	36	1.3



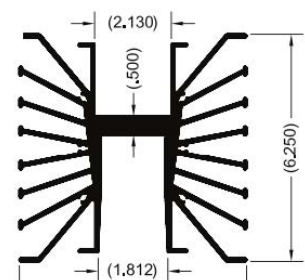
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125487	4.75" X 12" H STYLE HEATSINK 4530 XX1024	4.75	1.245	12	2
125488	4.75" X 36" H STYLE HEATSINK 4530 XX1024	4.75	1.245	36	2



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125499	5.00" X 12" H STYLE HEATSINK 6542 XX1245	5	5	12	0.72
125500	5.00" X 36" H STYLE HEATSINK 6542 XX1245	5	5	36	0.72



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
125505	6.25" WIDE X 12" H STYLE HEATSINK 16971 XX1541	6.25	6.25	12	0.59
125506	6.25" WIDE X 36" H STYLE HEATSINK 16971 XX1541	6.25	6.25	36	0.59

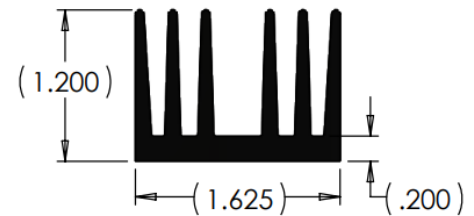


CENTER/MULTI CHANNEL HEAT SINKS

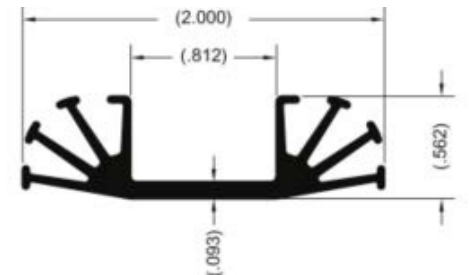
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

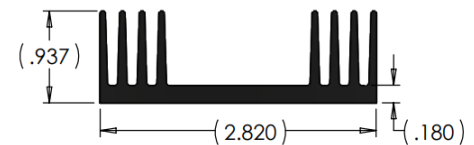
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127729	1.625" WIDE X 12" CENTER CHANNEL XX6863 19604	1.625	1.2	12	4.64
127787	1.625" WIDE X 36" CENTER CHANNEL XX6863 19604	1.625	1.2	36	4.64



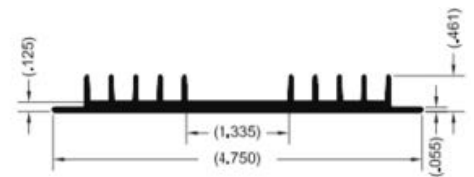
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127730	2.00" WIDE X 12" CENTER CHANNEL XX1284 6540	2	0.562	12	6.5
127788	2.00" WIDE X 36" CENTER CHANNEL XX1284 6540	2	0.562	36	6.5



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127731	2.82" WIDE X 12" CENTER CHANNEL XX4306 15963	2.82	0.937	12	3.1
127789	2.82" WIDE X 36" CENTER CHANNEL XX4306 15963	2.82	0.937	36	3.1



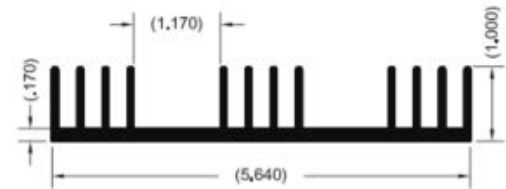
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127732	4.75" WIDE X 12" CENTER CHANNEL XX1327 6541	4.75	0.461	12	3.3
127790	4.75" WIDE X 36" CENTER CHANNEL XX1327 6541	4.75	0.461	36	3.3



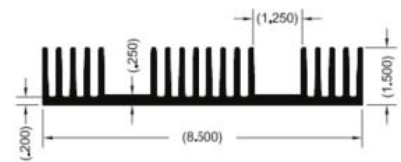
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127733	5.64" WIDE X 12" MULTI CHANNEL 7999	5.64	1	12	2.26
127791	5.64" WIDE X 36" MULTI CHANNEL 7999	5.64	1	36	2.26



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127734	8.5" WIDE X 12" MULTI CHANNEL XX5060 19223	8.5	1.5	12	0.87
127792	8.5" WIDE X 36" MULTI CHANNEL XX5060 19223	8.5	1.5	36	0.87

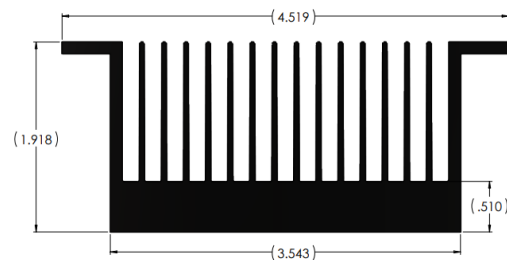


FLATBACK W/MOUNTING FEET HEAT SINKS

THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

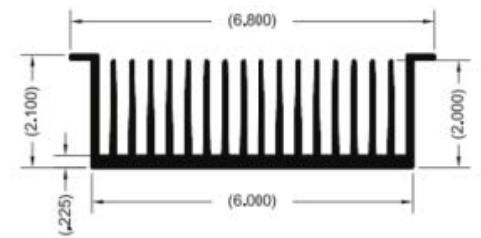
Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127735	4.519" WIDE X 12" FLATBACK W/ MOUNTING FEET 19133	4.519	1.918	12	2.4
127793	4.519" WIDE X 36" FLATBACK W/ MOUNTING FEET 19133	4.519	1.918	36	2.4



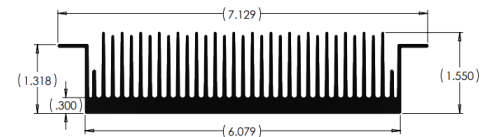
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

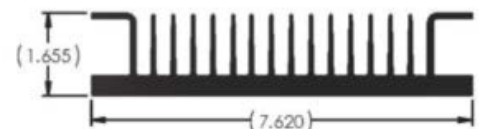
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127736	6.8" WIDE X 12" FLATBACK W/ MOUNTING FEET 13994	6.8	2	12	0.9
127794	6.8" WIDE X 36" FLATBACK W/ MOUNTING FEET 13994	6.8	2	36	0.9



Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127737	7.13" WIDE X 12" FLATBACK W/ MOUNTING LEGS 21911	7.13	1.55	12	0.74
127795	7.13" WIDE X 36" FLATBACK W/ MOUNTING LEGS 21911	7.13	1.55	36	0.74



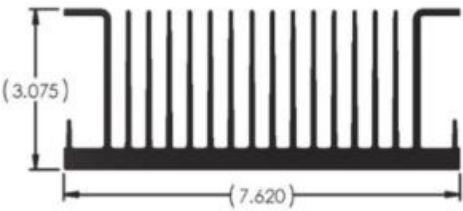
Part #	Description	Width (in)	Height (in)	Length (in)	* Thermal Resistance °C/w/3
127738	7.62" WIDE X 12" FLATBACK W/ MOUNTING FEET 16493	7.62	1.655	12	1.24
127796	7.62" WIDE X 36" FLATBACK W/ MOUNTING FEET 16493	7.62	1.655	36	1.24



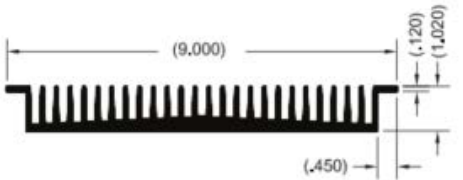
THERMAL EXTRUSIONS CUT TO LENGTH

* Thermal resistance based on 3 inch length in natural convection setting

Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127739	7.62" WIDE X 12" FLATBACK W/ MOUNTING FEET 16494	7.62	3.075	12	0.67
127797	7.62" WIDE X 36" FLATBACK W/ MOUNTING FEET 16494	7.62	3.075	36	0.67



Part #	Description	Width (In)	Height (In)	Length (In)	* Thermal Resistance °C/w/3
127740	9.00" WIDE X 12" FLATBACK W/ MOUNTING FEET 16922	9	1.02	12	2.1
127798	9.00" WIDE X 36" FLATBACK W/ MOUNTING FEET 16922	9	1.02	36	2.1



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTES

[illegible]



120 NORTHWEST BLVD, NASHUA, NH 03063
PHONE: (603) 635-2800 | FAX: (603) 635-1900
COMMUNICATIONS@WAKEFIELDTHERMAL.COM
WAKEFIELDTHERMAL.COM

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