



# Extrusion Profiles

RAPID PROTOTYPING AND MANUFACTURING FOR CUSTOM COOLING SOLUTIONS

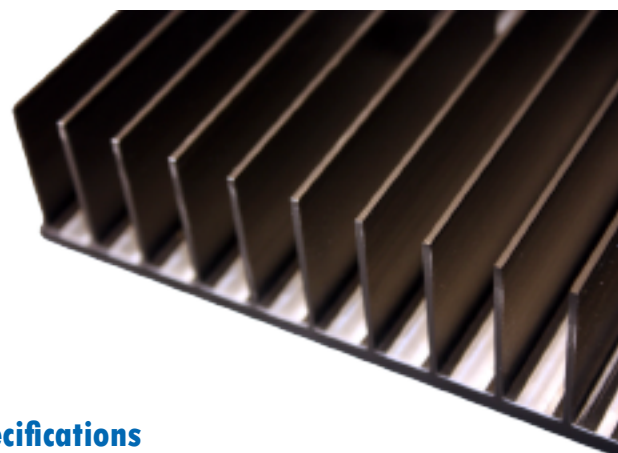
Aluminum extrusions are the most cost-effective solutions for the majority of electronic cooling applications. ATS offers a wide variety of aluminum profiles used for heat sink fabrication and other aluminum applications. Whether you are seeking a standard extrusion profile or the expertise from our design team to create a totally new and innovative profile, ATS has the capabilities and expertise to meet your requirements.

## Extensive Capabilities

From its facilities in Norwood, MA and strategic partnerships throughout Southern China, ATS offers:

- » Design with ATS high performance extrusion profiles to eliminate tooling costs and reduce lead time
- » An extensive inventory of profiles in a wide variety of sizes, ranging from 40.9 - 482.9 mm in width and 9.9 - 72.9 mm in height
- » Custom profiles available upon request to meet your specific requirements
- » Standard bar lengths of 304.8 mm for ease of manufacturing design prototypes
- » High performance extrusions with thermal resistance characteristics as low as 0.27°C/W
- » RoHS compliant, aluminum alloy 6061/6063
- » No minimum order quantity (MOQ) permitting you to order the exact quantity you require from prototype builds to high-volume production
- » All extrusion profiles unfinished (degreased) with custom finishes (anodization) available upon request to meet application-specific requirements
- » **A wide variety of secondary metal fabrication services through ATS Manufacturing including precision cutting, milling, punching, drilling and notching to meet all your design requirements**

For more information, call 781.769.2800,  
email [ats-hq@qats.com](mailto:ats-hq@qats.com) or visit [qats.com](http://qats.com)



## Specifications

MPN	Material	L (mm)	W (mm)	H (mm)	# of Fins
ATS-EXL58-300-R0	AL6063	300	6	8	3
ATS-EXL59-300-R0	AL6063	300	14	16	6
ATS-EXL60-300-R0	AL6063	300	13.9	25	3
ATS-EXL61-300-R0	AL6063	300	15	6	6
ATS-EXL62-300-R0	AL6063	300	24.5	17.5	8
ATS-EXL63-300-R0	AL6063	300	25	35	10
ATS-EXL64-300-R0	AL6063	300	25	22	10
ATS-EXL65-300-R0	AL6063	300	25	25	6
ATS-EXL66-300-R0	AL6063	300	25.4	4	9
ATS-EXL67-300-R0	AL6063	300	27.5	13.5	10
ATS-EXL68-300-R0	AL6063	300	35	25	9
ATS-EXL69-300-R0	AL6063	300	36	28	5
ATS-EXL70-300-R0	AL6063	300	36	35.6	5
ATS-EXL71-300-R0	AL6063	300	37	8	14
ATS-EXL72-300-R0	AL6063	300	41	7	15
ATS-EXL73-300-R0	AL6063	300	45	10	11
ATS-EXL74-300-R0	AL6063	300	70	15	28
ATS-EXL75-300-R0	AL6063	300	76	19	26
ATS-EXL76-300-R0	AL6063	300	93.4	40	29
ATS-EXL77-300-R0	AL6063	300	120.8	16.6	48
ATS-EXL78-300-R0	AL6063	300	139	7.4	23
ATS-EXL1-254-R0	AL6063	254	100	10	40
ATS-EXL2-254-R0	AL6063	254	100	20	40
ATS-EXL6-254-R0	AL6063	254	100	27	40
ATS-EXL7-254-R0	AL6063	254	101	14	42
ATS-EXL312-300-R0	AL6063	300	80	30	32
ATS-EXL424-288-R0	AL6063	288	188	16.5	35



All thermal performance data for one inch of extrusion • All data is for  $T_{\text{ambient}} = 25^{\circ}\text{C}$  and  $P = 10\text{W}$

	MPN	L (mm)	W (mm)	H (mm)	# of Fins	R (200lfm) °C/W"	R (400lfm) °C/W"	R (600lfm) °C/W"	R (800lfm) °C/W"	R (natural convection) °C/W"	R (200 lfms) °C/W" Ducted
	ATS-EXL58-300-R0	300	6	8	3	45	26	20	17	65	18
	ATS-EXL59-300-R0	300	14	16	6	11	5.9	4.6	3.9	38	4.7
	ATS-EXL60-300-R0	300	13.9	25	3	11.5	8.4	7	6.1	21	6.8
	ATS-EXL61-300-R0	300	15	6	6	29	17	13.8	11.9	57	12.5
	ATS-EXL62-300-R0	300	24.5	17.5	8	5.2	3.6	2.9	2.6	17.9	3.5
	ATS-EXL63-300-R0	300	25	35	10	2.5	1.6	1.6	1.1	13	1.6
	ATS-EXL64-300-R0	300	25	22	10	3.9	2.4	1.9	1.7	18.5	2.3
	ATS-EXL65-300-R0	300	25	25	6	4.5	3.3	2.7	2.4	11.7	3.5
	ATS-EXL66-300-R0	300	25.4	4	9	24.8	15	12	10.5	55	17
	ATS-EXL67-300-R0	300	27.5	13.5	10	5.8	3.8	3.1	2.7	21.7	3.6
	ATS-EXL68-300-R0	300	35	25	9	3	2.1	1.8	1.6	9.6	2.3
	ATS-EXL69-300-R0	300	36	28	5	5.4	4	3.3	2.9	12.1	3.9
	ATS-EXL70-300-R0	300	36	35.6	5	4.2	3.1	2.5	2.2	9.7	3.1



All thermal performance data for one inch of extrusion • All data is for  $T_{\text{ambient}} = 25^{\circ}\text{C}$  and  $P = 10\text{W}$

	MPN	L (mm)	W (mm)	H (mm)	# of Fins	R (200lfm) °C/W"	R (400lfm) °C/W"	R (600lfm) °C/W"	R (800lfm) °C/W"	R (natural convection) °C/W"	R (200 lfms) °C/W" Ducted
	ATS-EXL71-300-R0	300	37	8	14	9.5	5.2	4.1	3.5	36.4	4
	ATS-EXL72-300-R0	300	41	7	15	17.7	8.6	6.3	5.2	47.4	4.4
	ATS-EXL73-300-R0	300	45	10	11	6.8	4.7	3.9	3.4	18.6	4.2
	ATS-EXL74-300-R0	300	70	15	28	2.4	1.2	1.0	0.8	18.2	1.1
	ATS-EXL75-300-R0	300	76	19	26	1.4	1	0.8	0.7	9.7	1
	ATS-EXL76-300-R0	300	93.4	40	29	0.5	0.4	0.3	0.3	5.2	0.4
	ATS-EXL77-300-R0	300	120.8	16.6	48	1	0.6	0.5	0.4	12	0.6
	ATS-EXL78-300-R0	300	139	7.4	23	4.4	3.1	2.6	2.3	12	2.4
	ATS-EXL1-254-R0	254	100	10	40	2.2	1.3	1	0.9	15	1.2
	ATS-EXL2-254-R0	254	100	20	40	0.9	0.6	0.5	0.4	10	0.6
	ATS-EXL6-254-R0	254	100	27	40	0.7	0.5	0.4	0.3	7.9	0.5
	ATS-EXL7-254-R0 (wavy fin design)	254	101	14	42	1.8	1.1	0.9	0.8	14.7	0.9
	ATS-EXL312-300-R0	300	80	30	32	0.8	0.5	0.4	0.4	10.7	0.5
	ATS-EXL424-288-R0	288	188	16.5	35	0.9	0.7	0.6	0.5	4.0	0.8