



Heat Pipes

ATS' high performance **Round and Flat Heat Pipes** are used to transfer heat with minimal temperature difference or spread the heat across a surface. ATS' heat pipes are low profile and can easily attach to a heat sink.

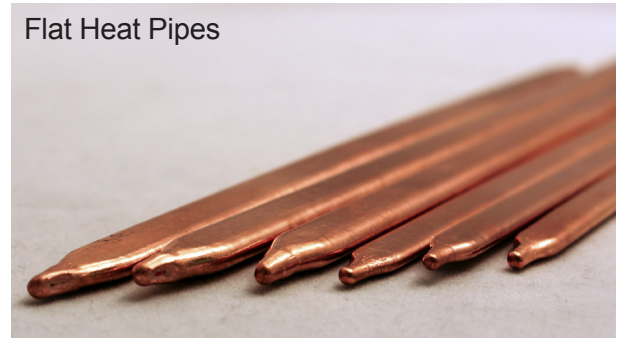
FEATURES & BENEFITS

- » Supplier certifies product is ROHS compliant
- » Tube material: copper
- » Wick structures: grooved or sintered copper powder
- » High thermal conductivity
- » Light weight
- » Fast thermal response

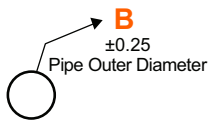
Round Heat Pipes



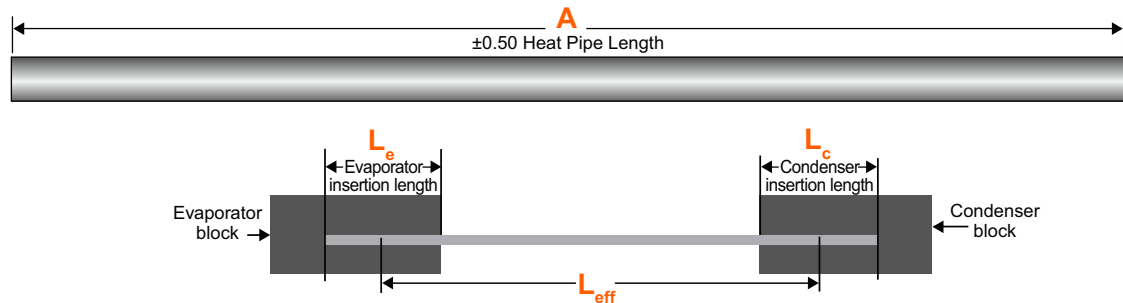
Flat Heat Pipes



Round Heat Pipes



$$Q_{max} = \frac{Q_t}{L_{eff}} \times 1000$$

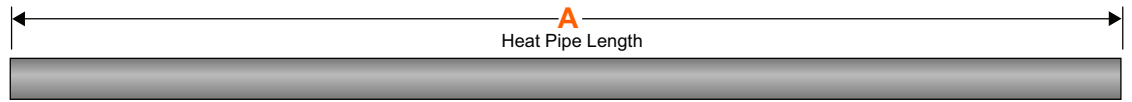
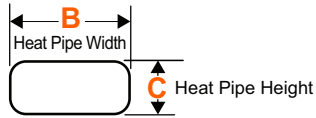


PRODUCT SPECIFICATIONS

A=Length (mm); B=Diameter (mm); W=Weight (g); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR=Temperature Range (°C); $L_{eff} = A - (L_e + L_c) / 2$

Part Number	A	B	W	WT	WF	TR	QT (W·m)	L_{eff} (mm)			Q_{max} (W)		
ATS-HP-D4L200G30W-001	200	4.0	8	G	Distilled H ₂ O	30-120	4.05	100	125	150	41	32	27
ATS-HP-D4L300G20W-002	300	4.0	12	G	Distilled H ₂ O	30-120	4.05	150	200	250	27	20	16
ATS-HP-D5L200G40W-003	200	5.0	9.3	G	Distilled H ₂ O	30-120	4.73	100	125	150	47	38	32
ATS-HP-D5L300G25W-004	300	5.0	14.2	G	Distilled H ₂ O	30-120	4.5	150	200	250	30	23	18
ATS-HP-D6L200G45W-005	200	6.0	12.2	G	Distilled H ₂ O	30-120	6.35	100	125	150	64	51	42
ATS-HP-D6L300G30W-006	300	6.0	18.4	G	Distilled H ₂ O	30-120	7.88	150	200	250	53	39	32
ATS-HP-D5L200S40W-007	200	5.0	12	S	Distilled H ₂ O	30-120	4.05	100	125	150	41	32	27
ATS-HP-D5L300S25W-008	300	5.0	17.4	S	Distilled H ₂ O	30-120	5.63	150	200	250	38	28	23
ATS-HP-D6L200S45W-009	200	6.0	15.7	S	Distilled H ₂ O	30-120	2.03	100	125	150	20	16	14
ATS-HP-D6L300S30W-010	300	6.0	22.6	S	Distilled H ₂ O	30-120	3.15	150	200	250	21	16	13
ATS-HP-D8L300S55W-011	300	8.0	33.3	S	Distilled H ₂ O	30-120	7.2	150	200	250	48	36	29

Flat Heat Pipes



PRODUCT SPECIFICATIONS

A=Length (mm); B=Width (mm); C=Height (mm); W=Weight (g); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C); $L_{eff}=A-(L_e+L_c)/2$

Part Number	A	B	C	W	WT	WF	TR	QT (W·m)	L_{eff} (mm)			Q_{max} (W)		
ATS-HP-F9L100S80W-012	100	10.5	4.5	12	S	Distilled H ₂ O	30-120	4.89	50	62.5	75	98	78	65
ATS-HP-F9L150S70W-013	150	10.5	4.5	19.2	S	Distilled H ₂ O	30-120	7.65	75	106.25	125	102	72	61
ATS-HP-F9L200S70W-014	200	10.5	4.5	25.3	S	Distilled H ₂ O	30-120	10.53	100	125	150	105	84	70
ATS-HP-F9L250S70W-015	250	10.5	4.5	33.5	S	Distilled H ₂ O	30-120	8.1	125	150	200	65	54	41
ATS-HP-F7L100S70W-016	100	11.2	3.5	12.3	S	Distilled H ₂ O	30-120	4.5	50	62.5	75	90	72	60
ATS-HP-F7L150S65W-017	150	11.2	3.5	18.9	S	Distilled H ₂ O	30-120	7.17	75	106.25	125	96	67	57
ATS-HP-F7L200S65W-018	200	11.2	3.5	25.4	S	Distilled H ₂ O	30-120	10.13	100	125	150	101	81	68
ATS-HP-F7L250S65W-019	250	11.2	3.5	31.9	S	Distilled H ₂ O	30-120	9	125	150	200	72	60	45
ATS-HP-F6L100S70W-020	100	8.0	3.0	7.3	S	Distilled H ₂ O	30-120	4.05	50	62.5	75	81	65	54
ATS-HP-F6L150S60W-021	150	8.0	3.0	11.3	S	Distilled H ₂ O	30-120	6.5	75	106.25	125	87	61	52
ATS-HP-F6L200S50W-022	200	8.0	3.0	14.9	S	Distilled H ₂ O	30-120	6.08	100	125	150	61	49	41
ATS-HP-F6L250S50W-023	250	8.0	3.0	18.3	S	Distilled H ₂ O	30-120	8.1	125	150	200	65	54	41
ATS-HP-F5L100S45W-024	100	8.2	2.5	7	S	Distilled H ₂ O	30-120	3.38	50	62.5	75	68	54	45
ATS-HP-F5L150S40W-025	150	8.2	2.5	10.2	S	Distilled H ₂ O	30-120	4.78	75	106.25	125	64	45	38
ATS-HP-F5L200S35W-026	200	8.2	2.5	13.5	S	Distilled H ₂ O	30-120	5.4	100	125	150	54	43	36
ATS-HP-F5L250S35W-027	250	8.2	2.5	16.7	S	Distilled H ₂ O	30-120	6.66	125	150	200	53	44	33
ATS-HP-F6L100S40W-028	100	8.0	3.0	7.2	S	Distilled H ₂ O	30-120	3.04	50	62.5	75	61	49	41
ATS-HP-F6L150S30W-029	150	8.0	3.0	11.4	S	Distilled H ₂ O	30-120	3.35	75	106.25	125	45	32	27
ATS-HP-F6L200S30W-030	200	8.0	3.0	14.9	S	Distilled H ₂ O	30-120	4.73	100	125	150	47	38	32
ATS-HP-F5L100S30W-031	100	8.5	2.2	6.8	S	Distilled H ₂ O	30-120	2.36	50	62.5	75	47	38	31
ATS-HP-F5L150S25W-032	150	8.5	2.5	10.4	S	Distilled H ₂ O	30-120	3.35	75	106.25	125	45	32	27
ATS-HP-F5L200S25W-033	200	8.2	2.5	14.2	S	Distilled H ₂ O	30-120	4.05	100	125	150	41	32	27