Flat Heat Pipe

ATS Part#: ATS-HP-F5L100S45W-024

Description: Closed evaporator-condenser heat transfer systems. A heat pipe's wick structure and embedded liquid enables it to produce a very high heat flux transport capability, which can be 10-20 times higher than the equivalent diameter solid copper pipe. Flat heat pipes are easier to attach to heat dissipating components.



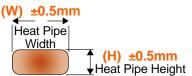
For Illustration Purposes ONLY.

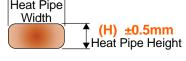
Features & Benefits

- » Tube material: copper
- » Wick structures: grooved or sintered copper powder
- » High thermal conductivity
- » Light weight
- » Fast thermal response

Applications for Heat Pipes

- » Compact Electronics Enclosures
- » Aerospace
- » Medical
- » Consumer Electronics
- » HVAC

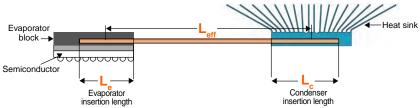




$$Q_{\text{max}} = \frac{Q_{\text{t}}}{L_{\text{eff}}} \times 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$





PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Product Detail													
Part Number	L	W	н	Wick Type	Working Fluid	Temp Range (°C)	QT (w.m)	L _{eff} (mm)	Q _{max} (W)	L _{eff} (mm)	Q _{max} (W)	L _{eff} (mm)	Q _{max} (W)
ATS-HP-F5L100S45W-024	100	8.2	2.5	Sintered	Distilled H ₂ O	30-120	2.18	50	44.0	62.5	35.0	75	29.0

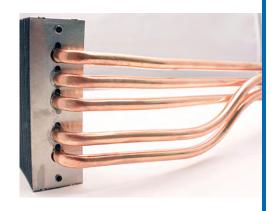
SUGGESTED MINIMUM BEND **RADIUS ON ATS HEAT PIPES**

Heat Pipe Diameter in mm	Minimum Bend Radius in mm				
4	12				
5	15				
6	18				
7	21				
8	24				

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HEAT PIPE JOINING TECHNIQUES

- 1) For small batches/prototypes, heat pipes can be joined to heat sinks or other pieces with thermal epoxy.
- 2) For optimal results, heat pipes should be soldered using low temperature solder at temperatures above 139°C but no greater than 250°C.



For further technical information, please contact Advanced Thermal Solutions, Inc. by phone: 1-781-769-2800, email ats-hq@qats.com or visit www.qats.com.



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