amec**thermaso**

FLAT HEAT PIPE / MHP-2550A300A

General Specification

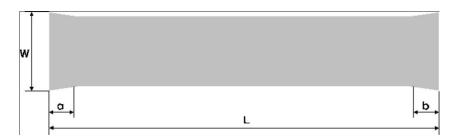
Item		Description	
Part Number		MHP-2550A300A	
Material of Container		Aluminium 1070	
Wick Structure		Groove	
Working Fluid		Acetone	
	Thickness	2.5 mm	
Dimension	Width	50.0 mm	
	Length	300 mm	
Weight		61 g (Unit Weight)	
	Horizontal	75.0 W (at 50°C)	
Qmax	Vertical	270.0 W (at 50°C)	
Typical Thermal Resistance		<0.2°C / W (Average)	
Operating Inclination, Ø		0 ~ 90°	
Leak Temperature Criterion		170°C	

<u>Scope</u>

This specification details the requirements and applications for 2.5 mm x 50.0mm x 300.0mm.

Dimensions

The dimensional attributes of this shall conform to the following figure.



Thickness (t)	Width (W)	Length (L)	Ineffective Length (a)	Ineffective Length (b)
2.5 mm	50.0 mm	300.0 mm	2.5 mm	2.5 mm

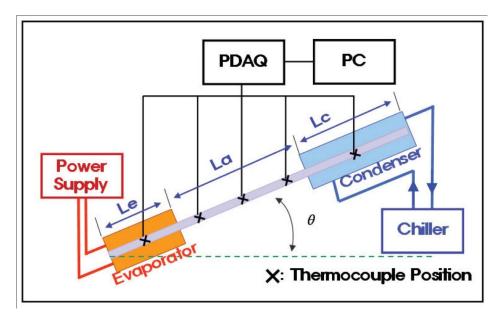
[Material]

Container	Aluminium 1070	
Working Fluid	Acetone	
Surface Treatment	None	

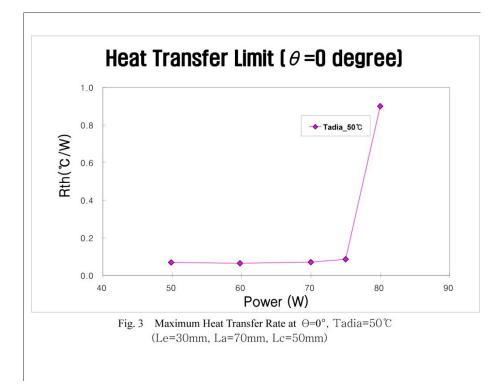


FLAT HEAT PIPE / MHP-2550A300A

Test Data for MHP-2550A150A



Qmax Test Apparatus

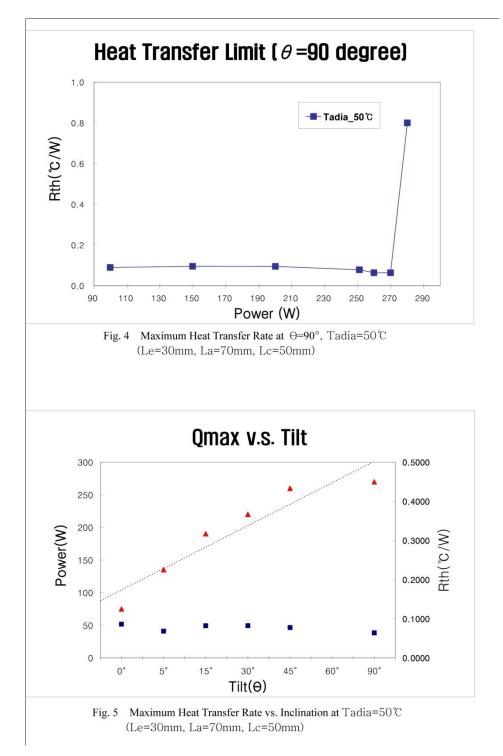


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FLAT HEAT PIPE / MHP-2550A300A

Test Data for MHP-2550A150A



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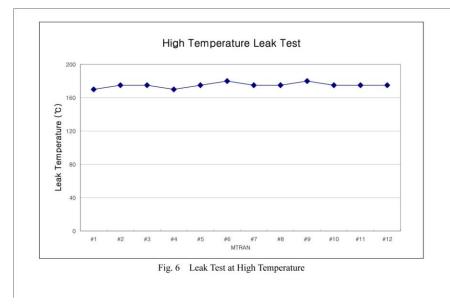


FLAT HEAT PIPE / MHP-2550A300A

Test Data for MHP-2550A150A

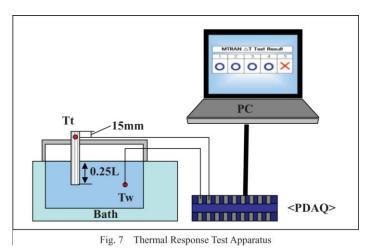
High Temperature Leak Test

Every manufactured component is sealed with a mechanical pinch system. The mechanical pinch of container results in a cold weld seal. The average leak temperature is about 170°C.



Thermal Response Test

A thermal response test and vacuum leakage check are carried out to ensure its operation. The experimental test bench is schematically shown in Fig.6. Water bath temperature, **(Tw)** is set at 50°C and the temperature of other end, **(Tt)** is measured immediately after it is placed vertically into the water bath. The criterion for acceptance is $5^{\circ}C$ (Tw – Tt).



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