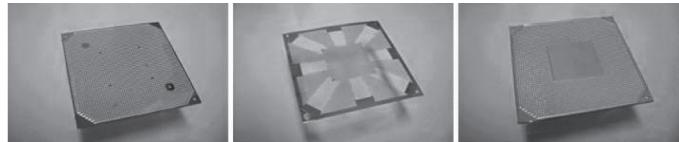
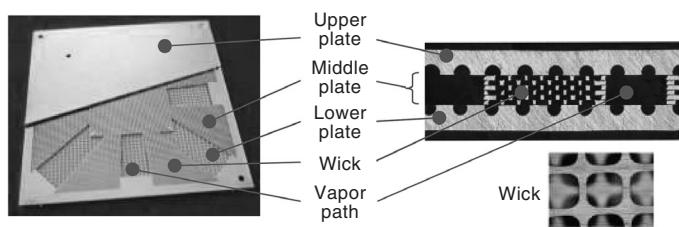
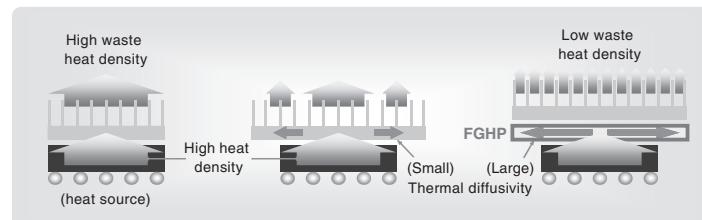




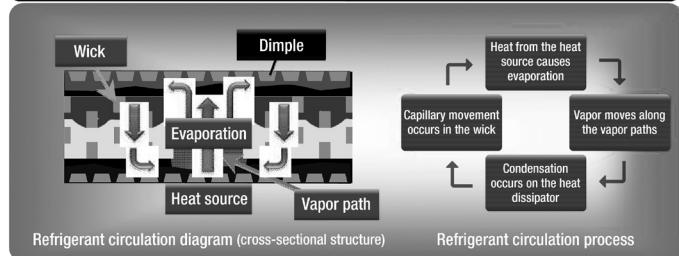
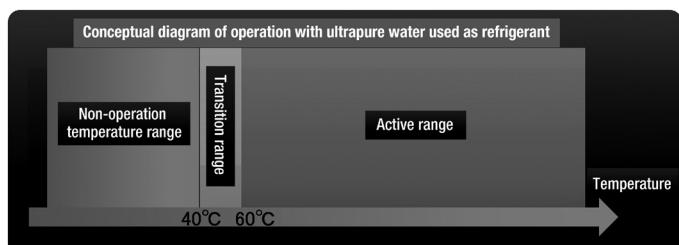
Fine Grid Heat Pipe® (FGHP®)

World's Highest-Performance Thin Vapor Chamber

Fine Grid Heat Pipe (FGHP) is a specialized high-performance flat-plate heat piping used for heat diffusion. The design's superior heat-diffusion performance evenly spreads ultra-high-density heat, thereby lowering the heat density for efficient radiation, making FGHP ideal for small, high-power FPGAs and GPUs, and high-power compound semiconductors such as GaN and SiC.



Main Features



① Refrigerant evaporation

Heat received from the heat source causes the refrigerant to evaporate. Evaporation is further improved by the dimple structure of the heat-receiving component.

② Vapor movement

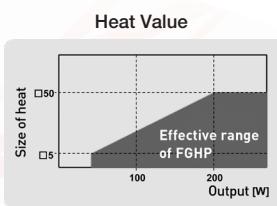
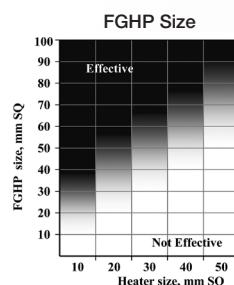
Evaporated vapors are diffused by the heat dissipation area along the vapor paths.

③ Vapor condensation

The vapor condenses into a liquid in the heat dissipation area. Condensation is further improved by the dimple structure of the heat dissipation area.

④ Condensation movement

The condensed refrigerant returns to the heat receiving area through the grooves on the wick and between the dimples.



Heat-diffusion performance is likely to be greater in applications with higher power and a smaller heat source area.

*The above are representative values and are not guaranteed.

Designation

FGHP △△△ -AB

Model No.

A - Material	
	0 Standard material (Oxygen-free copper)
B - Surface treatment	
0 Untreated	
1 Electroless nickel plating	
2 Tin plating	
3 Gold plating	

Standard FGHP Products

Model No.	Thickness	Size
FGHP○40	2.2mm	φ 40mm
FGHP○80	2.2mm	φ 80mm
FGHP○120	2.2mm	φ 120mm
FGHP□50	2.2mm	50mmX50mm
FGHP□80	2.2mm	80mmX80mm
FGHP□140	2.2mm	140mmX140mm
FGHP□4050	1.8mm	40mmX50mm

★ Custom configurations available (consultation required)

TAIYO WIRE CLOTH CO., LTD.

1-11-7 Minamisemba, Chuo-ku, Osaka 542-0081, Japan
Tel.: +81-6-6261-0851 Fax: +81-6-6261-2446
<https://www.twc-net.com/>

TWC TAIYO WIRE CLOTH