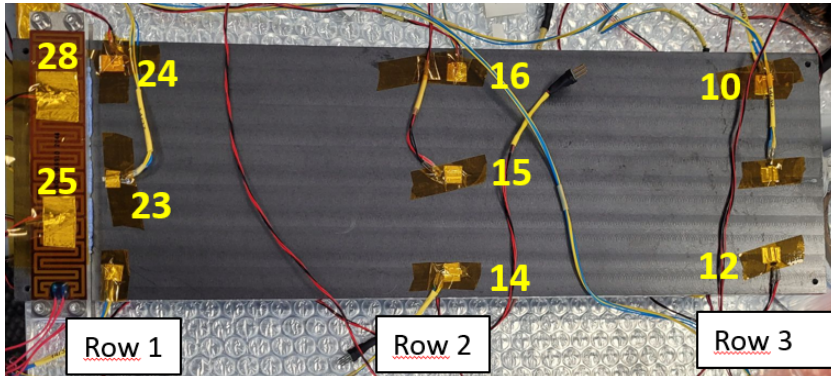
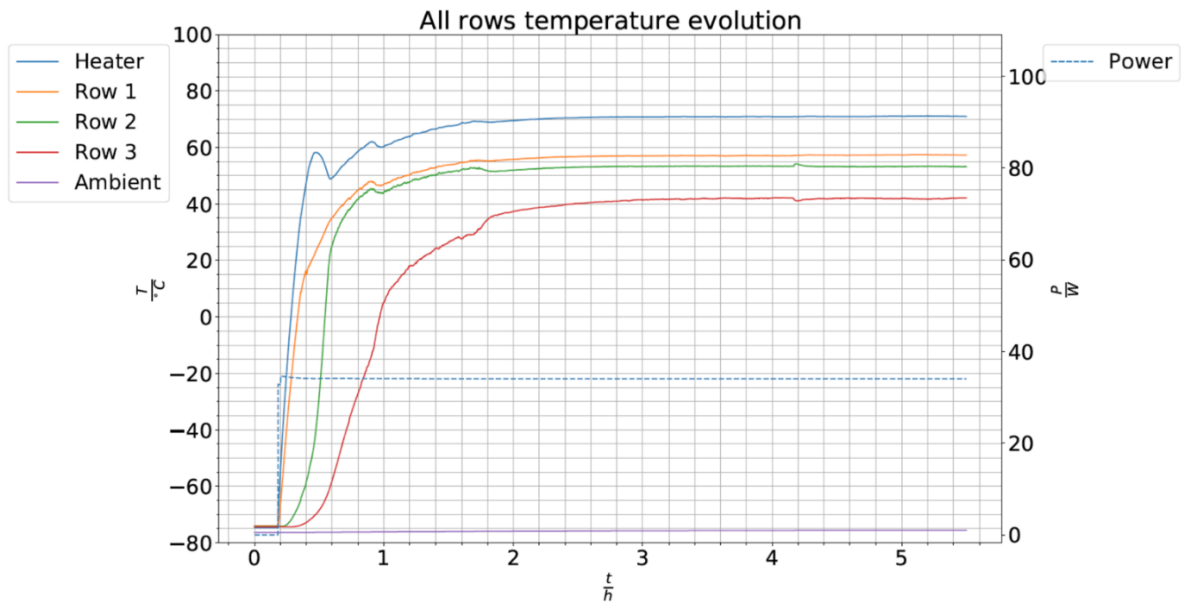


## Annex to Abstract: Development of a Pulsating Heat Pipe for Deployable Radiator Application

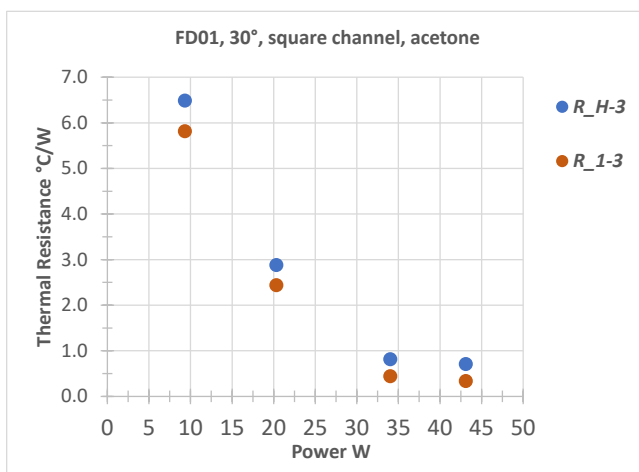


**PHP-Demonstrator:** FD01  
**Square Channels:** 2 x 2 mm  
**Fluid:** Acetone  
**Fill Ratio:** 70 %  
**Heater Power:** 34 Watt  
**Radiator Inclination:** 30°

PHP-demonstrator TVAC test setup: location of temperature sensors.



Typical temperature development on the PHP-Radiator breadboard surface in TVAC test.



Thermal resistance as a function of the heater power.

$R_{H-3}$ : thermal resistance calculated with temperature difference between Heater Row and Row 3.

$R_{1-3}$ : thermal resistance calculated with temperature difference between Row 1 and Row 3.