

PULSATING HEAT PIPE

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[An Introduction to Pulsating Heat Pipes | Electronics Cooling](#)

An Introduction to Pulsating Heat Pipes May 1, 2003 Sameer Khandekar Heat Pipes Design , liquid cooling , Number 2 , PHP , Pulsating Heat Pipe , Volume 9 Modern electronics thermal management faces considerable challenges in the wake of component miniaturization, which has led to higher demands on net heat flux dissipation.

What are pulsating heat pipes? Where I can make a ... Pulsating heat pipes (PHPs) are passive heat transfer devices where the heat transfer is much more higher as compared to the general heat transfer devices such as metal fins. The main reason for this is the two phase phenomenon happening inside PHPs with the oscillatory motion of the bubbles. It can

[Pulsating Heat Pipe](#)

A pulsating heat pipe in action at Indian Institute of Technology Kanpur, India. More information at home.iitk.ac.in/~samkhan.

[On the Design Fundamentals of Pulsating Heat Pipes: An ...](#)

Pulsating heat pipes (PHPs) are the new addition to the wickless heat pipe family introduced by Akachi in 1990 s. In last few decades this device acts as a promising source for cooling electronic devices where temperature difference between source and sink is very small. Pulsating heat pipes are highly acceptable devices due to its simple design, light weight feature and small size

[\(PDF\) CFD simulation of a Pulsating Heat Pipe using ANSYS ...](#)

A pulsating heat pipe (PHP) [1] is a passive and extremely efficient way of exchanging heat between a hot source and a cold one. The simulation of a 2D single loop pulsating heat pipe using

[\(PDF\) Closed Loop Pulsating Heat Pipe: Orientations Effect](#)

Closed Loop Pulsating Heat Pipe (CLPHP) is a passive two-phase heat transfer device that has a potential to achieve high heat transfer rates over conventional cooling techniques.

[PULSATING HEAT PIPE BASED HEAT EXCHANGERS - IITK](#)

(a) Schematic of a pulsating heat pipe (b) Three possible configurations of a PHP (c) Typical flow pattern in a PHP and the transport operations in a unit cell.

[Pulsating Heat Pipe | Novark](#)

Pulsating heat pipes are made from a long capillary tube

which is bent multiple times, or from a rectangular plate with capillary channels manufactured in it. The bends are placed at the evaporator a

Pulsating Heat Pipe

Heat pipe analysis in Ansys fluent || Multiphase analysis in Ansys || Volume of fluid (VOF) model - Duration: 15:32
Viraj Gandhi 12,902 views

Heat transfer performance of closed loop pulsating heat ...

In this paper, an experimental study is presented on the thermal resistance characteristics of closed loop pulsating heat pipes (CLPHPs) with methanol-based binary mixtures.

Experimental Investigations on Pulsating Heat Pipe ...

Thermal management of electronics is a contemporary issue in research field. Pulsating heat pipes are relatively new entrants to the family of heat pipes used for higher heat removal.

13 International Heat Pipe Conference (13 IHPC), Shanghai ...

One end of the PHP tube bundle receives heat, transferring it to the other by a pulsating action of the working fluid, generating, in general, a

REVIEW OF UNSOLVED MATTER RELATED TO PULSATING HEAT PIPES

pulsating (or oscillating) heat pipes (PHP or OHP) are new two-phase heat transfer devices that rely on the oscillatory flow of liquid slug and vapor plug in a long miniature tube bent into many turns.

Numerical Analysis of Performance of Closed- Loop ...

National Institute of Technology Rourkela CERTIFICATE

This is to certify that the thesis entitled, Numerical Analysis of performance of closed loop pulsating heat pipe submitted by Mr. Ashutosh Kr singh in partial

AN EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER CAPABILITY ...

An experimental investigation of closed loop pulsating heat pipes (CLPHPs) with a hydrocarbon as working fluid determine the effect of heat transfer and overall system performance at a given constrained dimensional heat source. The experimental