

# Cool-STAFF®

*OKI Flexible Heat Sink Film*

**Heat Sink film with flexibility and high heat emission by several combinations**

## Features

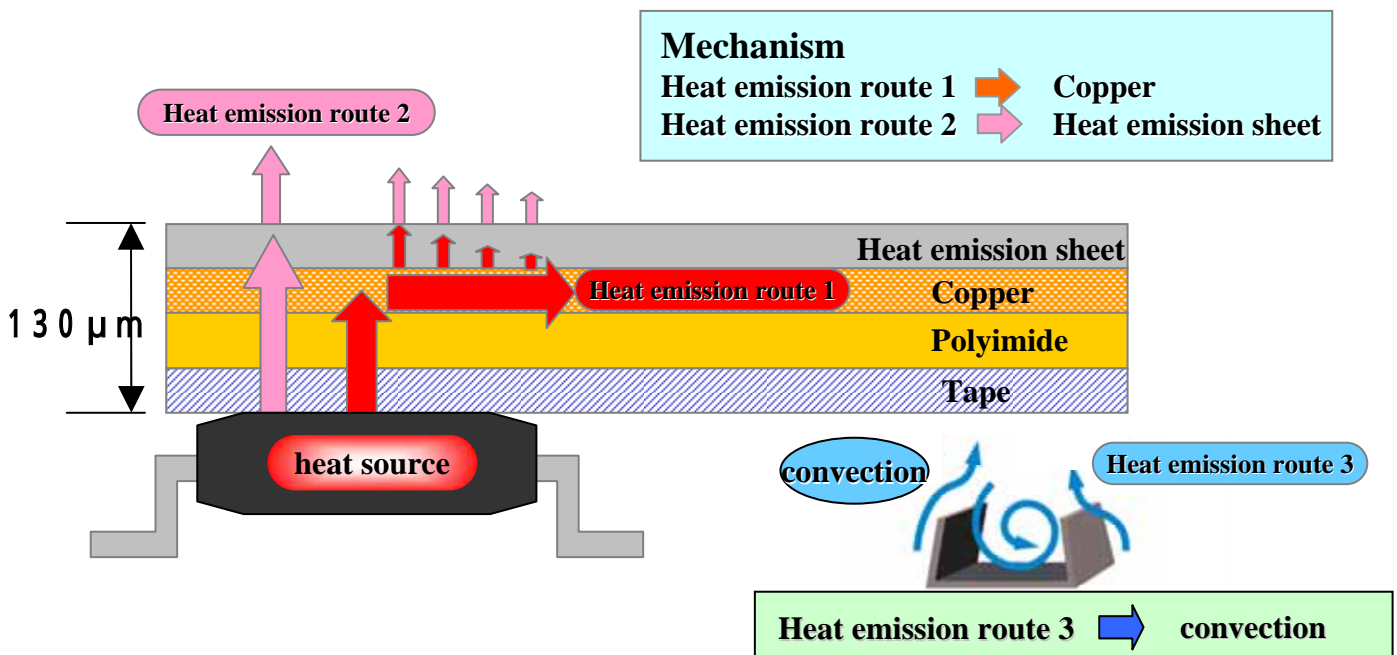
**High efficiency of heat emission by combination of heat conduction ,  
heat radiation and heat convection**

**Easy mounting and simple construction**

**Thin and easy formation by seizers and stamping die**

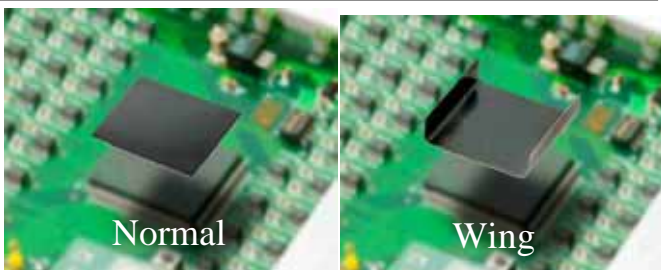
**RoHS compliant and No siloxane gas**

## Construction and mechanism



## Line Up

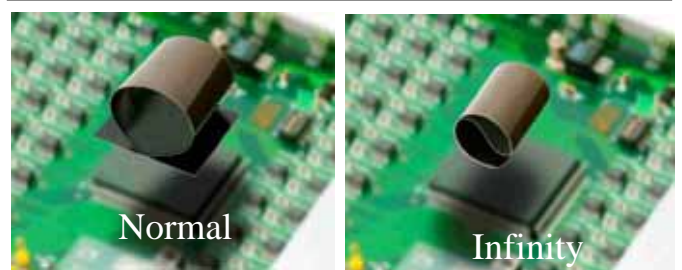
### Sheet Type



W 20,30,40,50mm Squarer

Sheet (Normal) W 240mm X H 250mm

### Tube Type



W 20,30,40,50mm

Gap 5 ~ 30mm

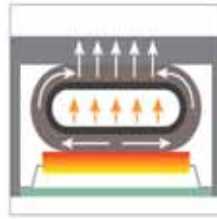
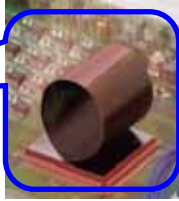
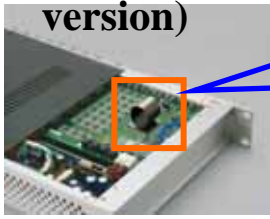
W 30mm

Gap 10 ~ 25mm

1. Custom design size also acceptable upon request
2. Roll type(10m or more) delivery to be discussed
3. Double size(240mm X 500mm) Normal Sheet Type is also available

Usage Example

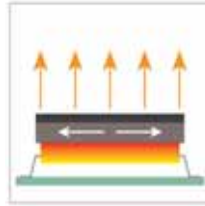
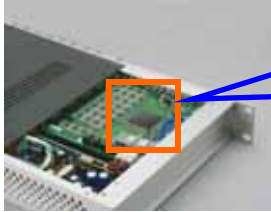
**Tube type (Normal version)**



**Conduction**

Heat conduction to frame

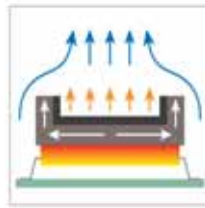
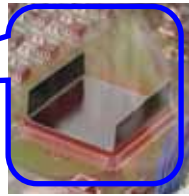
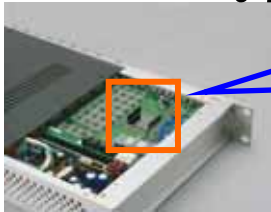
**Sheet type (Normal)**



**Radiation**

Heat radiation by far infrared ray

**Sheet type (Wing version)**



**Convection**

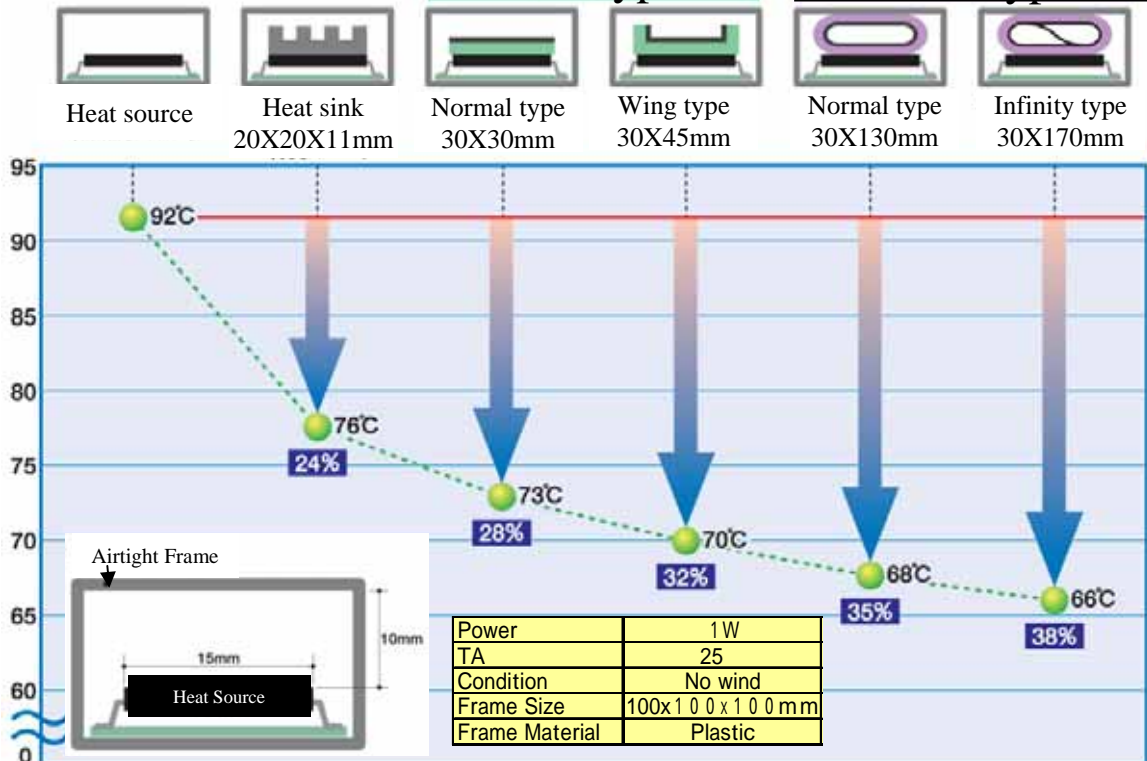
Heat conduction by convection

Heat emission effectiveness of Cool Staff

**OKI Product**

**Sheet type**

**Tube type**



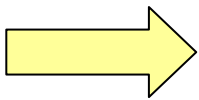
Heat source temp (°C)

## Standard Specifications

	Sheet Type		Tube Type	
	Normal	Wing	Normal	Infinity
Thickness(approx.)	0.13mm	0.13mm	0.13mm	0.13mm
Typical Size	20mmSQ	20mmSQ	20mmSQ(Gap 5-15mm)	30mmSQ(Gap 10-15mm)
	30mmSQ	30mmSQ	20mmSQ(Gap 15-30mm)	30mmSQ(Gap 15-20mm)
	40mmSQ	40mmSQ	30mmSQ(Gap 5-15mm)	30mmSQ(Gap 20-25mm)
	50mmSQ	50mmSQ	30mmSQ(Gap 15-30mm)	
	240mm X 250mm		40mmSQ(Gap 5-15mm)	
			40mmSQ(Gap 15-30mm)	
			50mmSQ(Gap 5-15mm)	
		50mmSQ(Gap 15-30mm)		
Insulation resistance	1X10 <sup>11</sup> or more			
Heat resistance	120			

## Great benefit of Cool-STAFF

- (1) Suitable for closed space
- (2) For a space where Fans and heat sinks do not work.
  - Possible for use in the small gap (T: 130 μ m)
  - Possible for three dimensional allocation with Flexibility
- (3) For a space where Fan wind do not reach.
- (4) For weight reduction 0.4g/ 30x30mm Extra light



Improvement for thermal designing



The colors shown in this catalog may differ slightly from those of the actual product due to the printing process. The contents of this catalog are applicable as of June 2008.  
Please note that the specifications, etc., may be changed without prior notification.

<b>Main Products</b>	Machine Vision high speed interface cable, Flexible PC Boards ,Cables for robots and movable equipment,
	OKIFLEX® flat cable, Hard clad optical fiber code/cable
	OB wire® series electrode wires for wire electric discharge machines, New "Cool-STAFF" heat radiation materials

Manufactured by

# OKI

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