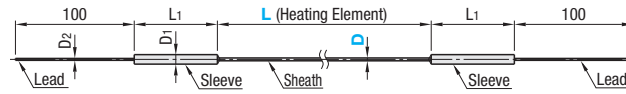


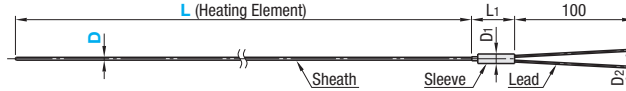
# Micro Heaters, Silicon Belt Heaters



**MBHKR (Both Terminal Type)**



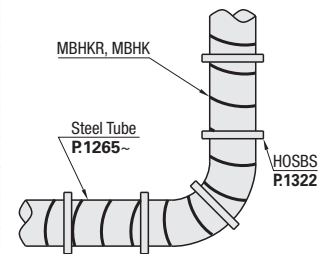
**MBHK (One Terminal Type)**



Maximum Operating Temperature: 600°C  
Heat Resistance Temperature of Sleeve: 200°C

**Material**  
Sheath Body : SUS316  
Heat Generator: Nickel Heat Generator  
Lead : Nickel Lead

Part Number Type	D	V (Voltage)	W (Electric Power)	L (Heating Element)	L1	D1	D2	Electrical Power Density (W/cm <sup>2</sup> )	Unit Price
MBHKR	1.0	100	200	1750	50	5.0	1.0	3.6	
		200	400	3500		6.4			
	1.6	100	300	3000	50	6.4	1.0	2	
		200	600	6000					
	2.4	100	600	3600	70	8.0	1.4	2.2	
		200	1200	7200					
MBHK	1.6	100	250	1350	36	6.4	1.0	3.7	
		200	500	2700				3.7	
	2.4	100	400	1950		8.0	1.4	2.7	
		200	800	3800				2.8	



**Structure**

Insulating powders and a heat generator are hermetic-sealed and enclosed within sheath in the same manner as sheath thermocouple.

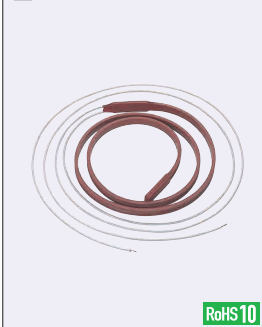
**Features**

- The tube of the heater is extremely thin. This makes it usable for narrow and complicated places.
- Enhanced flexibility enables you to change shapes as you want.
- Minimum bending radius should be up to 3 times of D dimension.

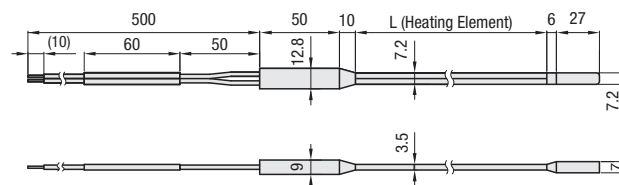
**Precautions for Use**

- Do not cross the sheath part or contact to the part.
- If a heater is covered with material of low thermal conductivity such as heat insulation material, heat is more likely to stay. In this case, be sure to use in combination with Temperature Control Unit.
- The tube of the heater is extremely thin. Excessive tension may cause breakage in the tube.

**Silicon Belt Heaters**



**MBEH (100V, 200V / Single-phase)**



Operating Temp. Range: -50 ~ 180°C

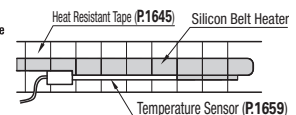
**Features:**

- Belt type heater with Nickel-chrome wire molded with silicon rubber.
- The belt type structure enables to stick to the object closely and heat it.
- For Selecting Method, see P1645.

Selecting Method: **EX** Left-hand page

**Material**  
Heat Generator : Nickel-chrome Wire  
Coating Material : Silicon Rubber  
Lead Wire : Silicon Rubber Film  
Tin Plated Annealed Copper Wire

Part Number Type	No.	L (Heating Element)	V (Voltage)	W (Electric Power)	Electrical Power Density (W/cm <sup>2</sup> )	Unit Price
MBEH	1050	1000	100	50	0.7	
	2050	2000	200	50	0.35	
	3100	3000	200	100	0.5	



**Precautions for Use**

- Do not let the heaters run idle in the atmosphere. It may cause fires and broken wire.
- Do not install by overlapping the heater.
- Do not use over the rated voltage (V).
- This product is not water-proof. Do not use in places where water splashes or humidity is high.

- Wrap with heat resistant tape from the top to use.
- When removing the heater from the heated object, make sure the power is turned off. Do not touch the heater immediately after the power is turned off.
- Use Temperature Adjusters or Temperature Controllers for safety.



Ordering Example  
Part Number - V - W - L  
MBHKR1.0 - V100 - W200 - L1750  
MBEH 1050