

Mica Band Heater



Application

Clamped to cylindrical surfaces for heating such as injection machinery, extrusion machinery and blow mold machinery etc.

Material of sheath and operating temperature

Steel coating zin with mica insulation	Maximum250 °C	Standard
SUS 430 with mica insulation	Maximum400 °C	Optional
SUS 304 with mica insulation	Maximum500 °C	Optional

Typical maximum watt density

20~25W/inch² or 3-4W/cm²

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Standard Specification

Width		I. D. Available-inch(mm)	
inch	mm	Minimum	Maximum
1 1/4	31.8	1 1/4(31.8)	15(381)
1 3/8	34.9	1 1/4(31.8)	15(381)
1 1/2	38.1	1 1/4(31.8)	15(381)
2	50.8	1 1/4(31.8)	15(381)
2 1/2	63.5	1 1/4(31.8)	5(381)
3	76.2	1 1/4(31.8)	5(381)
3 1/2	88.9	1 3/4(44.5)	5(381)
4	101.6	2(50.8)	5(381)
4 1/2	114.3	2 1/4(57.2)	5(381)
5	127.0	2 1/2(63.5)	5(381)
6	152.4	3(76.2)	5(381)
7	177.8	4(101.6)	5(381)

※ Other customer's required sizes are available.

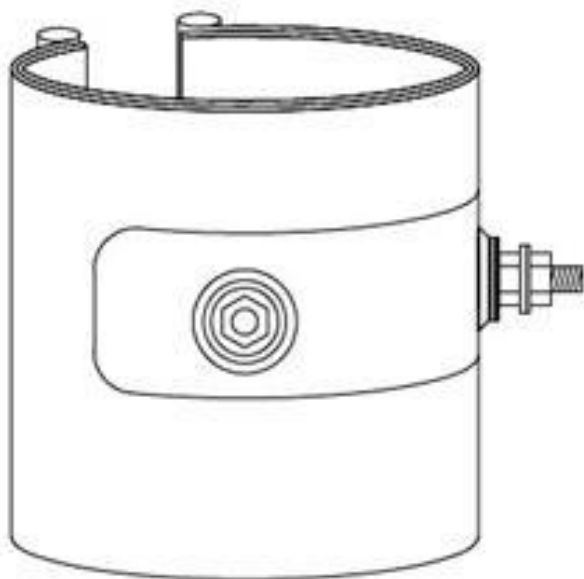
Capacity Calculating Formula

$$\frac{\text{Dia. (mm)} \times \pi (3.1416) \times \text{width(mm)}}{645} \times 20$$

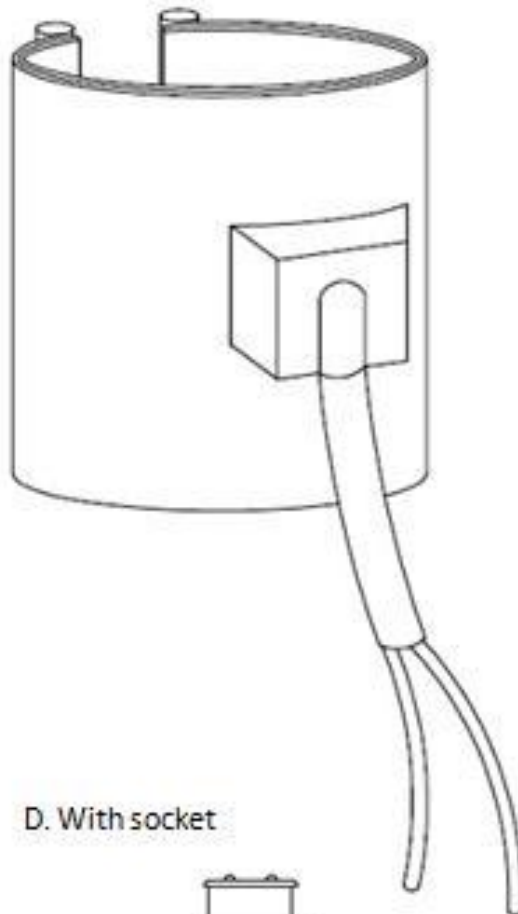
= Wattage (Maximum 3,000W for 200V up, 2,000W for 100/110V)

Termination type

A. With screw



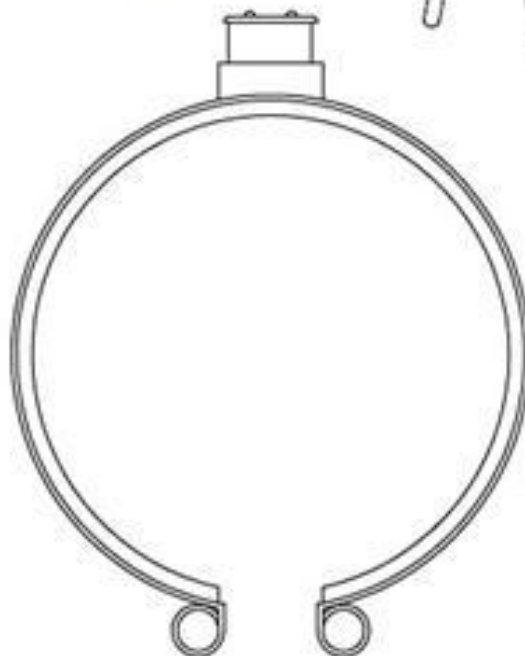
B. With box



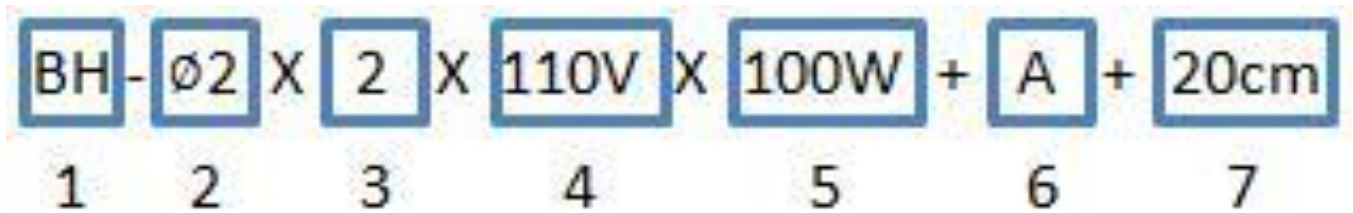
C. With wire



D. With socket



Order information



- (1). Band Heater.
- (2). Diameter (both inch and m/m available).
- (3). Width (both inch and m/m available).
- (4). Voltage (100V~480V).
- (5). Wattage.
- (6). Termination type (A,B,C,D).
- (7). Extension wire (if desired).

Remark :

If possible, when you want to order the heater please indicating working temperature and circumstance in order to design proper products and keep long life for use.

Technical Information

- (1). How to calculate required wattage :

$$Kw = \frac{M \times Cs \times \Delta T}{864 \times t(h)} (1 + H \text{ loss})$$

M : Weight of heating object. t(h) : Time(hour).

Cs : Heating rate. 864 : Rate of K cal. change to K watt.

ΔT : Temperature difference. H loss : Heating loss (about 20%~30%).

(2). Various material character and heating rate sheet :

Material	Weight rate (kg/dm ²)	Heating rate (KCal/Kg°C)	Melted temp.°C
Water	1.00	1.000	0
Iron,cast	7.20	0.120	1176
Inconel 600	8.41	0.126	1371
Incoloy 800	8.00	0.130	1371
Gold	19.32	0.032	1062
Silver	10.49	0.057	960
Brass-yellow	8.47	0.096	932
Copper	8.91	0.095	1082
Steel	7.86	0.122	1515
Stainless steel 304	7.91	0.120	1398
Stainless steel 430	7.61	0.110	1454
Lead liquid	10.71	0.037	
Lead solid	11.34	0.032	326
Magnesium	1.74	0.270	650
MgO (Compaced)	3.10	0.209	
Nickel 200	8.88	0.120	1435
Nichrome 80/20	8.35	0.110	1398
Tin liquid	7.00	0.065	
Tin solid	7.27	0.052	232
Solder(Sn-Pb5%)	8.92	0.051	182
Aluminum	2.71	0.240	643
Cement board	1.94	0.250	
Brickwork	2.10	0.220	
Asphalt	2.10	0.400	
Molybdenum	10.21	0.071	2621
Mica	2.82	0.210	
Paraffin	0.88	0.690	56
Steatite	2.60	0.200	
Teflon	2.15	0.250	
Platinum	21.45	0.035	1773
Phenolic	1.27	0.400	
Monel 400	8.82	0.110	1315
Tantalum	16.60	0.035	2996
Tungsten	19.30	0.040	3410

Zinc	7.17	0.096	419
Titanium	4.53	0.130	1668
Sulfur	2.07	0.175	119
Zirconium	6.47	0.067	1848

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