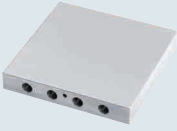


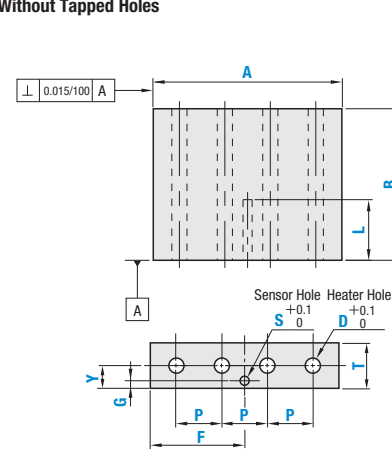
Hot Plates

Hot Plates

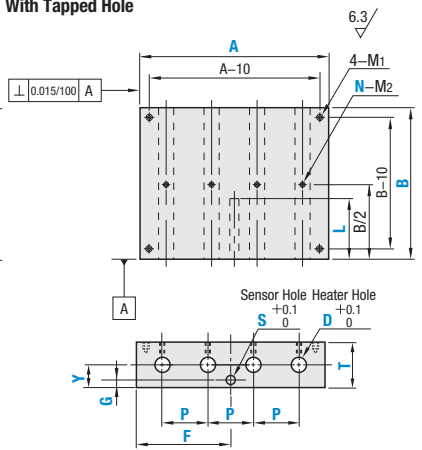


RoHS 10

Without Tapped Holes



With Tapped Hole



M₁ Size Table

A	B	M ₁
50-100	50-100	M4 x 0.7 Depth 6
	101-200	M5 x 0.8 Depth 8
101-200	50-100	M6 x 1.0 Depth 10
	101-200	M6 x 1.0 Depth 10

M₂ Size Table

D	M ₂
5, 6	M3 x 0.5
8-16	M4 x 0.7
18	M5 x 0.8

Part Number	Plate			Heater Hole		Sensor Hole		Heater Position		Sensor Position	
	Type	Materials Symbols	1 mm Increment	D Selection	N Quantity	S Selection	L 1 mm Increment	P Pitch	Y From Bottom	F From Left	G From Bottom
HTPL	A	50-200	50-200	12-30	5 6 8 10 12 14 16 18	1-10	1.6 2.3 3.2 4.8	10-30 10-100	8-191 When N=1, P is the distance from left end.	6-25	4-197 4-27

- ① The distance from the upper, lower or side plate end faces to the heater/sensor holes and tapped hole should be 2 mm or more.
- ② The distance between all holes (between heater holes, between heater holes and sensor holes, or between heater/sensor holes and tapped holes) should be 2 mm or more.
- ③ M₁ tapped holes (pilot holes) may go through when the T dimension is 15 mm or less.
- ④ It is recommended to make the distance between heaters (P) 3 to 4 times larger of heater diameter (D). (If the distance between heaters is too small, the heating may accumulate in the plate and heating unevenness may occur.)

This metal plate has a sensor hole and heater holes for heater insertion.

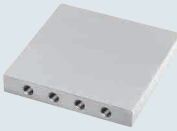
Part Number Example

Part Number	Plate	Heater Hole	Sensor Hole	Heater Position	Sensor Position
HTPLA	A - B - T	D Diameter - N Qty.	S Diameter - L Length	P Pitch - Y From Bottom	F From Left - G From Bottom
HTPLA	200 - 200 - 30	D5 - N6	S1.6 - L30	P20 - Y15	F100 - G5

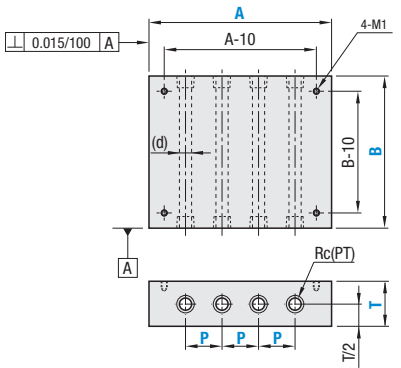
Cooling Plates / Mounting Bolts for Cartridge Heaters

Heaters / Temperature Controllers / Insulating Plates

Cooling Plates



RoHS 10



Type	Material Surface Treatment Codes	Materials
HTPC	S	303 Stainless Steel

M1 Size Table		(d) Size Table	
A	B	M ₁	RC (PT)
50-100	50-100	M4 x 0.7 Depth 6	1(1/8)
	101-200	M5 x 0.8 Depth 8	2(1/4)
101-200	50-100	M5 x 0.8 Depth 8	
	101-200	M6 x 1.0 Depth 10	

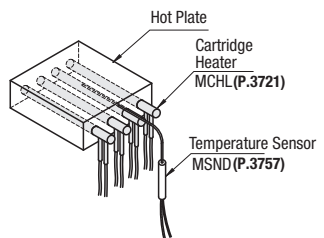
Type	Materials Code	1mm Increment		T 5 mm Increment	RC (PT)	N No. of Cooler Holes	P 1 mm Increment
		A	B				
HTPC	S	50-200	50-200	15-30 20-30	1 (1/8) 2 (1/4)	1-7	25-(A-25)

- ① The distance from the upper, lower or side plate end faces to the cooler holes and tapped holes should be 2 mm or more.
- ② The distance between all holes (between cooler holes, or between cooler holes and tapped holes) should be 2 mm or more.

Part Number Example

Part Number	Plate	RC (PT)	N No. of Cooler Holes	P Pitch
HTPCS	A - B - T	R1	N4	P30

Application Example




Hot Plate
Cartridge Heater MCHL (P.3721)
Temperature Sensor MSND (P.3757)

Plate type terminal for water. Cool an object by running cooling water through the terminal.

Precision Standards

- Thickness Parallelism: 0.015 or Less per 100 mm
- Flatness $\frac{T}{100}$ mm: 10-15 (0.03), 16-25 (0.015), 26 or More (0.012)
- Dimension Tolerance of A and B: 99 mm or Less (± 0.2), 100-200 (± 0.3)
- T Dimension Tolerance: ± 0.1
- Circumference Chamfering: C0.2-C1.0

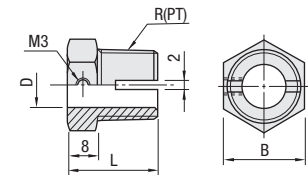
Mounting Bolts for Cartridge Heaters



RoHS 10

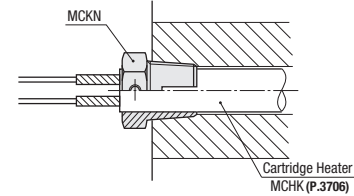
MCKN

Material: 303 Stainless Steel



Type	Part Number		B	L	R (PT)
	No.	d			
MCKN	5	5.1	14	18	1/8
	6	6.1			
	6.25	6.4			
	8	8.1	17	20	1/4
	9.42	9.5			
	10	10.1	21	25	3/8
	12	12.1			
	12.6	12.7			
	14	14.1	24	27	1/2
	16	16.1			
18	18.1	29		3/4	

Application Example



MCKN
Cartridge Heater MCHK (P.3706)

- ① Use M3 set screw (not included) on the side of mounting bolt when mounting the heater.
- ② Avoid using Mounting Bolt with heater when power density exceeds 15W/cm².

Part Number Example

Part Number	Part Number
MCKN8	MCKN8

3724

There's more on the web: misumiusa.com

Check out misumiusa.com for the most current pricing and lead time.

3725