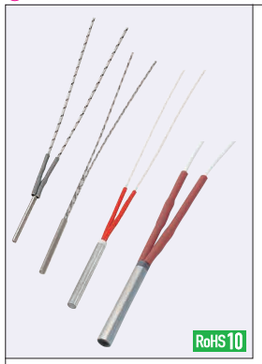
Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

Cartridge Heaters, Anti-Seize Agent, Thermally Conductive Grease

Selectable/Configurable L & W

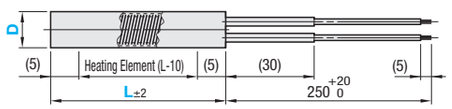
Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on **P.1605**.



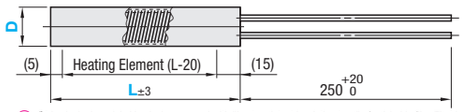
RoHS 10

MCHK [Selectable L, W] **MCHS** [Configurable L, W]

D=3.1

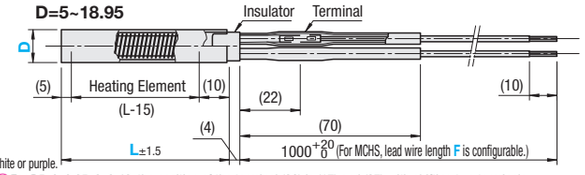


D=4



Ø4 lead wire has nickel lead wire wrapped with "heat-resistant insulation tape" of polyimide film. That is wrapped with glass fiber taper which is braided with glass. Please peel off the light yellow "heat-resistance insulation tape" before actual use.

D=5~18.95



D Tolerance * The tolerance is the value of heat generator part.

D	Tolerance
3.1	+0.05 -0.1
4	0 -0.08
5 6 8 10 12 14 16 18	-0.02 -0.08
6.25 9.42 12.6 15.77 18.95	+0.05 0

D=3.1

Material
Heater : SUS304
Lead Wire : Copper Wire
Lead Wire Film : Glass Braid
Lead Wire Heat Resistance Temperature : 180°C

D=4

Material
Heater : SUS304
Lead Wire : Nickel (Ni)
Lead Wire Film : Glass Braid + Polyimide Film
Lead Wire Heat Resistance Temperature : 250°C

D=5~18.95

Material
Heater : SUS321
Terminal : Copper + Tin Plating
Lead Wire : Nickel (Ni)
Lead Wire Film : Glass Braid
Lead Wire Heat Resistance Temperature : 180°C

The color of insulation at the root of the lead wire is white or purple.
Maximum Operating Temperature: 600°C For D5, 6, 6.25, 8, 9.42, the position of the terminal (22) is (17) and (37) with shifting two terminals.
Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.

Selectable L & W

Part Number Type	D	L	V (Voltage)	W (Electric Power)	Electrical Power Density (W/cm²)	Unit Price
MCHK	3.1 (1/8 inch)	31.8	120	25	11.8	
				50	23.6	
		38.1	120	30	11.0	
				60	21.9	
		50.8	120	50	12.6	
			240	50	12.6	
	4	40	120	30	11.9	
		50	120	45	11.9	
		80	120	90	11.9	
		100	120	120	11.9	
	5	30	100	40	17.0	
			200	40	17.0	
		40	100	40	10.2	
				60	15.3	
			200	60	15.3	
		50	100	50	9.1	
				80	14.6	
			200	80	14.6	
		60	100	100	14.2	
			200	100	14.2	
		80	100	150	14.7	
			200	150	14.7	
		100	100	200	15.0	
			200	240	18.0	
	6	30	100	50	17.7	
			200	50	17.7	
		40	100	80	17.0	
			200	80	17.0	
		50	100	100	15.2	
			200	100	15.2	
		60	100	50	5.9	
				130	15.3	
			200	80	9.4	
				130	15.3	
		80	100	100	8.2	
			200	200	16.3	
				120	9.8	
			200	200	16.3	
		100	100	120	7.5	
				250	15.6	
			200	200	12.5	
				250	15.6	
	6.25 (1/4 inch)	60	100	50	5.7	
			200	80	9.1	
		80	100	100	7.8	
			200	120	9.4	
		100	100	120	7.2	
			200	200	12.0	

Part Number Type	D	L	V (Voltage)	W (Electric Power)	Electrical Power Density (W/cm²)	Unit Price
MCHK	8	30	100	60	15.9	
			200	60	15.9	
		40	100	100	15.9	
			200	100	15.9	
		50	100	100	11.4	
			200	150	17.1	
				100	11.4	
				150	17.1	
		60	100	100	8.8	
			200	200	17.7	
				120	10.6	
				200	17.7	
		80	100	150	9.2	
			200	250	15.3	
				150	9.2	
				250	15.3	
		100	100	200	9.4	
			200	350	16.4	
				200	9.4	
				350	16.4	
		150	100	300	8.8	
			200	500	14.7	
				350	10.3	
				500	14.7	
	9.42 (3/8 inch)	80	100	150	7.8	
			200	150	7.8	
		100	100	200	8.0	
			200	200	8.0	
		150	100	300	7.5	
			200	350	8.8	
	10	30	100	80	17.0	
			200	80	17.0	
		40	100	120	15.3	
			200	120	15.3	
		50	100	120	10.9	
				180	16.4	
			200	120	10.9	
				180	16.4	
		60	100	120	8.5	
			200	250	17.7	
				150	10.6	
				250	17.7	
		80	100	150	7.3	
			200	300	14.7	
				180	8.8	
				300	14.7	

Part Number Type	D	L	V (Voltage)	W (Electric Power)	Electrical Power Density (W/cm²)	Unit Price
MCHK	10	100	100	200	7.5	
			200	400	15.0	
		150	100	250	9.4	
			200	400	15.0	
				300	7.1	
				500	11.8	
			200	300	7.1	
				500	11.8	
	12	60	100	120	7.1	
			200	300	17.7	
				150	8.8	
				300	17.7	
		80	100	150	6.1	
			200	300	12.2	
				180	7.3	
				300	12.2	
		100	100	200	6.2	
				400	12.5	
			200	250	7.8	
				500	15.6	
		150	100	300	5.9	
				600	11.8	
			200	300	5.9	
				600	11.8	
	12.6 (1/2 inch)	60	100	120	6.7	
			200	180	7.0	
		100	100	200	5.9	
			200	250	7.4	
		150	100	300	5.6	
			200	300	5.6	
	14	60	200	200	10.1	
		80	200	250	8.7	
		100	200	250	6.7	
		150	200	400	4.9	
	16	100	200	200	4.7	
		150	200	250	3.7	
		250	200	500	4.2	
		300	200	700	4.9	

Configurable L & W

Part Number Type	D	L 1mm Increment	V (Voltage) Selection	W (Electric Power) 10W Increment	F (Lead Wire Length) 10mm Increment	Electrical Power Density (W/cm²)	Unit Price L50~100	L101~200	L201~300	L301~400	L401~500	L501~600
MCHS	6	50~250	100	50~500	100~1000	2≤W/cm²≤15 W/cm²=W/{Dπ(L-15)/100} Calculate with the electrical power density of heat-generating part, not with the overall length.				-	-	-
			110	50~500								
			200	60~600								
			220	80~600								
	6.25 (1/4 inch)		100	50~500						-	-	-
			110	50~500								
			200	60~600								
			220	80~600								
	8	50~400	100	50~600							-	-
			110	50~600								
			200	50~1200								
			220	70~1200								
	9.42 (3/8 inch)		100	50~600							-	-
			110	50~600								
			200	50~1200								
			220	70~1200								
	10	50~600	100	50~600								
			110	50~600								
			200	50~1200								
			220	70~1200								
	12		100	50~800								
			110	50~800								
			200	50~1600								
			220	70~1600								
	12.6 (1/2 inch)		100	50~800								
			110	50~800								
			200	50~1600								
			220	70~1600								
	14		100	50~800								
			110	50~800								
			200	60~1600								
			220	80~1600								
	15.77 (5/8 inch)		100	50~800								
			110	60~800								
			200	70~1600								
			220	90~1600								
	16		100	50~800								
			110	60~800								
			200	70~1600								
			220	90~1600								
	18		100	50~800								
			110	60~800								
			200	100~1600								
			220	130~1600								
	18.95 (3/4 inch)		100	50~800								
			110	60~800								
			200	100~1600								
			220	130~1600								

Ordering Example
Part Number - L - V - W - F
MCHK6 - 60 - V200 - W80
MCHS12.6 - 120 - V200 - W650 - F800

Alterations
Part Number - L - V - W - F(FC)
MCHS14 - 220 - V100 - W450 - FC2
⊗Not applicable to MCHK.

Alteration Code	Lead Wire Length
FC	
Spec.	Changes the lead wire length. Ordering Code FC2

FC	Lead Wire Length (mm)
2	2000
3	3000

Anti-Seize Agent

A Accessory: Working Gloves

Thermally Conductive Grease

A Accessory: Working Gloves

Part Number
MCHYB30
MCHYG50

Part Number Type	No.	Volume	Heat Resistance Temperature	Specific Gravity	Color	Main Component	Unit Price
MCHYB	30	30g	600°C	1.4	Black	Molybdenum disulfide	

- By applying to cartridge heaters, gaps will be filled and prevent seizing.
- Upon installation, if part of the agent leaks, remove it from the heater.
- It also works as anti-seizure agent for parts surrounding the heat source such as set screws and flanges.
- Wear a pair of working gloves when applying the grease.

Part Number Type	No.	Volume	Heat Resistance Temperature	Conditions of Thermal Conduction	Color	Main Component	Unit Price
MCHYG	50	50g	200°C	0.96W/m·K	White	Silicon	

- By applying to a cartridge heater, heat can be effectively transferred to metal plates.
- Grease may outflow when heat reaches around 200°C. Wipe off the out-flowed grease and then use the heater.
- Wear a pair of working gloves when applying the grease.