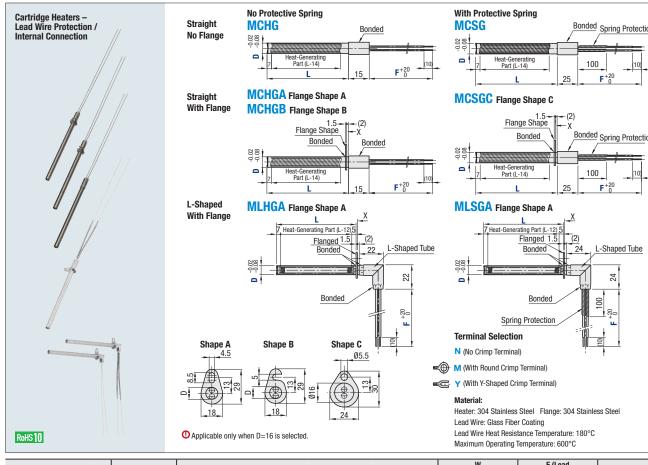
Cartridge Heaters

Lead Wire Protection / Internal Connection



Part Number		L 1 mm Increment		V (Vol	tage)		W (Electrical Power)	F (Lead Wire Length)	Terminal Selection
Type	D			0010011011			10 W Increment	10 W Increment 10 mm Increment	
No Protective Spring MCHG With Protective Spring MCSG	8	50–400	100	110			50-500	300–1000	N M Y
					200	220	50-1100		
	10		100	110			50-600		
					200	220	50-1600		
	40		100	110			50-900		
	12				200	220	50-1800		
	46		100	110			50-1000		
	16				200	220	50-2000		

						200		50-2000		
Part Number L			V (Vol	tage)		W (Flootrical Payer)	F (Lead Wire Length)	Terminal		
Type D			1 mm Increment	Selection			(Electrical Power) 10 W Increment	10 mm Increment	Selection	
No Protective Spring	Spring With	8		100	110	200	220	50-500 50-1100		
MCHGA Spring	10		100	110	200	220	50-600 50-1600	-	N	
MCHGB MLHGA		12	50-400	100	110	200	220	50-900 50-1800	300–1000	M
With Protective Spring		16		100	110	200	220	50-1000 50-2000		'

① 2≤W/cm²≤15 W/cm²=W{/D; (L-14) */100} *L-12 for Shape L (Calculate with the electrical power density of heat-generating part, not with the full length.)



Part Number

① Please refer to "Precautions for Use" in the Cartridge Heaters Overview on P.3704.

Precautions for Use

3712

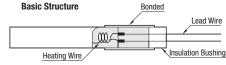
- Do not let heater run idle in the atmosphere. Operating the heater when heat-generating part is out of heated products, the wire may break due to abnormal heating.
- Keep the temperature around the lead wire exit at 180°C or less.
- Cartridge Heater with protective spring is recommended for a use at a moving part

Type of Terminal

Symbols	Type of Terminal	Nominal Size of Screw		
N	No Crimp Terminal	_		
M	Crimp Terminal – Round Type	M4		
Υ	Crimp Terminal – Y-Shaped	M4		

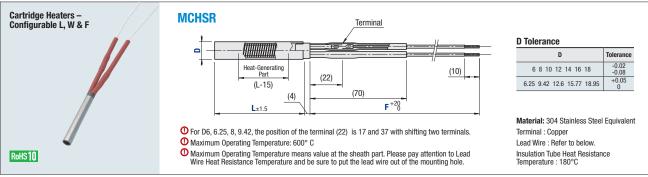
Features

- Heat generating wire and lead wire are connected in stainless steel sheath.
- Since crimp terminal is not exposed, it has stronger structure against breakage due to bending and vibration



Cartridge Heaters

Configurable L, W & F



Part Number			V (Voltage)	W (Electric	F (Lead V	Flooring Davis	
Туре	D	L 5mm Increments	v (voitage)	Power) 10W Increment	Lead Wire Type	10mm Increment	Electrical Power Density (W/cm
			100	50-500			
			110	50-500	-		
	6		200	60-600			
		F0.050	220	80-600			
		50-250	100	50-500			
	6.25		110	50-500			
	1/4 inch		200	60-600			
			220	80-600			
			100	50-600			● 2≤W/cm²≤1 W/cm²= W/{Dσ(L-15)/10 Calculate with th electrical powe density of heat- generating part not with the overall length.
	8		110	50-600			
	"		200	50-1200	-		
		50-400	220	70–1200	Silicon Rubber Wire T Teflon Wire *M Silica Wire	100–1000	
		30 400	100	50-600			
	9.42		110	50-600			
	3/8 inch		200	50-1200			
			220	70–1200			
			100	50-600			
	10		110 200	50-600 50-1200			
			220	70–1200			
			100	50-800			
			110	50-800			
	12		200	50-1600			
			220	70–1600			
MCHSR		1 1	100	50-800			
	12.6 1/2 inch	- 50–600	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			
	16		220	90–1600			
			100	50-800			
			110 200	50-800			
			220	60-1600 90-1600			
			100	50-800			
	18		110	60-800			
			200	100-1600			
			220	130–1600			
		1 }	100	50-800			
	18.95		110	60-800	1		
	3/4 inch		200	100-1600	1		

Lead Wire Type

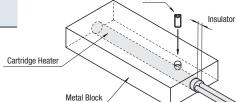
Symbol	Lead Wire Type	Heat Resistance Temperature	Features	
G	Silicon Rubber + Tin Plated Annealed Copper Wire	180°C	For chemical and water resistant items	
Т	Teflon + Nickel Plated Annealing Copper Wire	260°C	For chemical, water and weather resistant items	
*M	Mica Polyimide- Wound Silica + Nickel Coated Copper Wire	400°C	For heat resistant items	

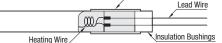


Application Example

Precautions for Use

- ① Do not let heater run exposed in the atmosphere. Operating the heater when heat-generating part is out of heated products, the wire may break or ignite due to abnormal heating.
 - ① Pay attention to insulation tube as it is easy to fall off.
- Keep the temperature around the lead wire exit at 130°C or less







F Lead Wire

Lead Wire Type

- 60 - V200 - W80 -

220

MCHSR is not available between L301-L600 for D6 and D6.25, and between L401-600 for D8 and D9.42.

The specified increment for the L dimension has been changed to a 5 mm increr

• Please refer to "Precautions for Use" in the Cartridge Heaters Overview on P.3704.

Part Number

Example