

MCRA – FULLOHM

80,100,120,150,200W Metal Clad Wire Wound Resistors

Functions and Features

It is metal wire wound resistor with metal housing which is strong to external impact at rated power of 80W ~ 200W.

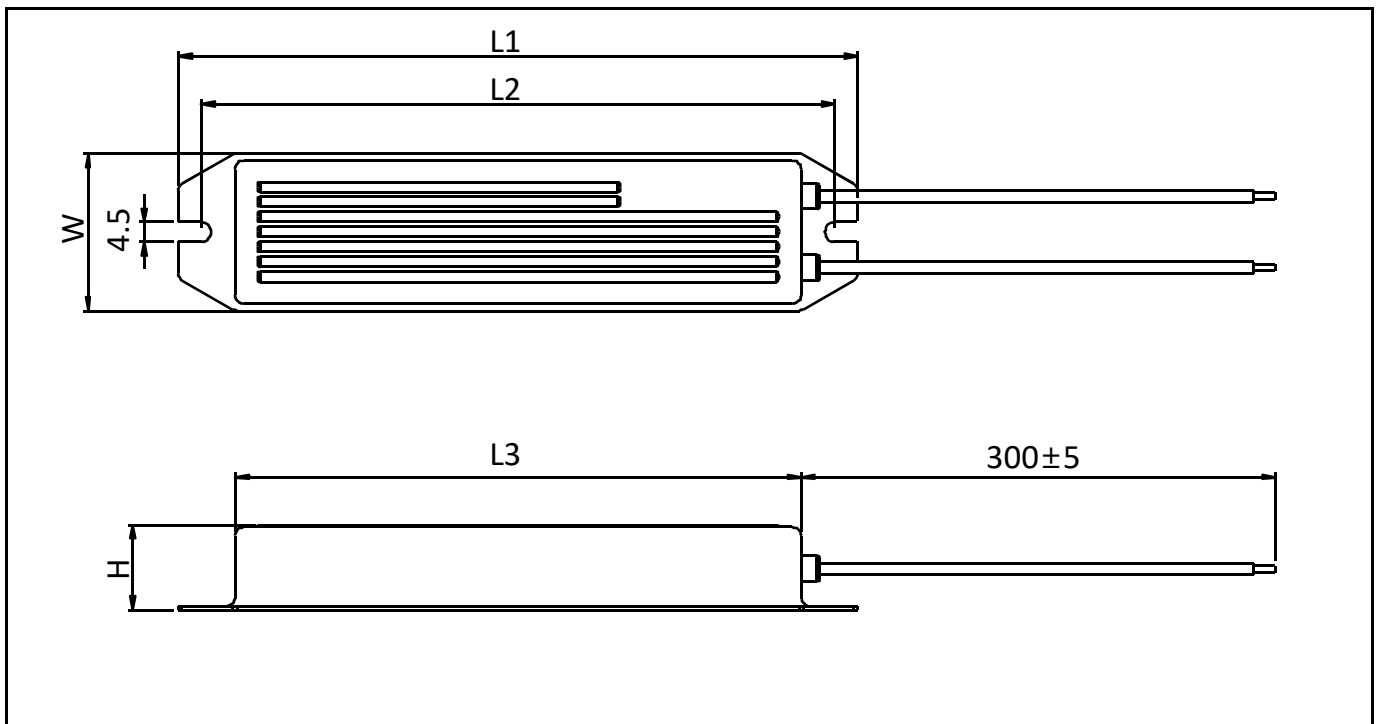
The resistance value can be selected from inducted winding or non-inducted winding from 0.1Ω.

It has a rectangular structure consisting of aluminum case with excellent thermal conductivity, the structure with excellent heat resistance and a non-combustible insulator to save the space.

This device may be used for electric power equipment, motor control circuit, regenerative braking resistor, inrush current prevention circuit and current detection resistor of general load resistance.



■ Outline Dimensions (mm)



	L1±1mm	L2±1mm	L3±1mm	W1±0.5mm	H±1mm	Weight(g) ±10%
MCRA-80	150	140	125	35	19	0.13
MCRA-100	150	140	125	35	19	0.13
MCRA-120	182	172	150	43	20	185
MCRA-150	182	172	150	43	20	185
MCRA-150S	182	172	150	43	13	185
MCRF-200	230	220	200	60	20	400

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Ordering Information

타입 Type MCRA	정격전력 Power 100	유도/무유도 Ind./non-ind. W	저항값 Resistance 50Ω	허용오차 Tolerance J
Std. (wire)	80 to 200 (Watt)	W(inductive) N(non-ind.)	Any value	±1.0% (F) ±5.0% (J) ±10% (K)

Note: Tolerance ±5%(J) is standard.

Specifications and Performances

Characteristics	Standards	Test method
Rated Resistance and Resistance tolerance	Resistance Tolerance ± 1% (F) ± 5% (J) ± 10% (K)	
Temperature coefficient	±260ppm/°C max.	
Power rating load	Surface temperature rise 450°C max.	
Short-time overload	no evidence of arc damage etc. (0.5% + 0.05Ω)	$V = \sqrt{10 * P * R} \rightarrow 5\text{sec.}$
Insulation resistance	20MΩ min.	DC1,000V
Dielectric withstanding voltage	No evidence of mechanical damage or insulation breakdown (0.5% + 0.05Ω)	AC2,500V / 1 minute
High temperature exposure	No evidence of mechanical damage (0.5% + 0.05Ω)	275°C 2 hours
Thermal shock	No evidence of mechanical damage (0.5% + 0.05Ω)	a. Continuous 1) -55 : 30 min 2) 25 : 5 min 3) 155 : 30 min 4) 25 : 5 min
Low temperature storage	No evidence of mechanical damage (0.5% + 0.05Ω)	40°C 24hours → 25°C 2~8 hours

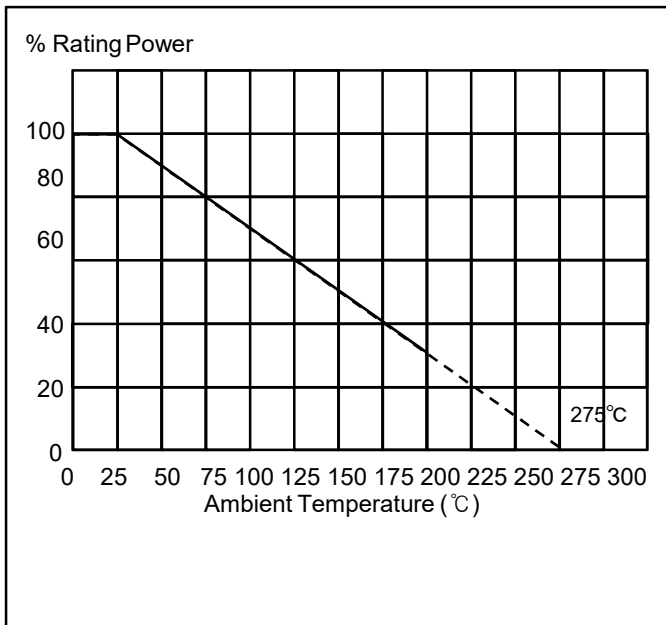
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■ Rated power and Resistance

Model	Rated Power	Resistance Value(Ω)		Tolerance
		W	N	
MCRA-80	80W	0.1~1.0K	0.1~200	F: ±1% J: ±5% K: ±10%
MCRA-100	100W	0.1~1.2K	0.1~350	
MCRA-120	120W	0.1~1.5K	0.1~500	
MCRA-150	150W	0.1~1.5K	0.1~500	
MCRA-150S	150W	0.1~1.5k	0.1~500	
MCRA-200	200W	0.1~2.0k	0.1~1.0K	

■ Derating curve



■ Temperature Rise

