⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
• This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.
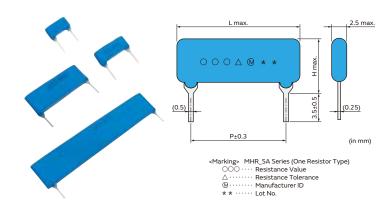
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Sep. 15,2022

High Voltage Resistors

◗ MHR Series

Features

1. Use of thick film resistance for high voltage
2. High resistance value and narrow resistance tolerance
3. Small & Thin SIP Type

Applications

1. Office machine
2. Consumer electronics / Beauty care equipment
3. Medical / Health care equipment
4. Measuring / Analytical equipment
5. Static elimination equipment

Exterior photograph / Dimensions   MHR_SA Series (Bulk Type)

L max.   2.5 max.
H max.
3.5±0.5
(0.5)   (0.25)
P±0.3   (in mm)

<Marking>   MHR_SA Series (One Resistor Type)
○○○ ····· Resistance Value
△ ········ Resistance Tolerance
Ⓜ ········ Manufacturer ID
★★ ······ Lot No.

● Part Numbering

High Voltage Resistors

(Part Number)   MHR | 0309 | S | A | 107 | F | 70 | T7
❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

❶Product ID

Product ID	
MHR	High Voltage Resistors

❷Substrate size

Code	Substrate size
First Two Digits	Substrate Height Dimension
Last Two Digits	Substrate Lateral Dimension

❸Type

Code	Type
S	For High Voltage Power Supply
R	For pulse resistance (Less than 1 MΩ) *Customized

❹Number of Resistors

Code	Number of Resistors
A	1
B	2 *Customized

❺Resistance Value

Express as a three-digit number.
The first two digits indicate significant digits and the last digit indicates the number of zeros that follow.
The unit is ohm (Ω).

Ex.)

Code	Resistance Value
107	100MΩ

❻Resistance Tolerance

Code	Resistance Tolerance
D	±0.5%
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

❼Individual Specifications

Code	Individual Specifications
70	Single Use
20	Molded Use

❽Packing Specifications

Code	Packing Specifications
T7	Taping Type *Customized
-	Bulk Type

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High Voltage Resistors

◖ MHR Series

Series Lineup (MHR_SA Series (Bulk type))

Part Number	Resistance Range (MΩ)		Maximum Rated Voltage (kV) *1		Rated Power (W)	P (mm)	L (mm)	H (mm)
	min.	max.	Single Use	Molded Use				
MHR0307SA○○○△□□	1	1,000	2	3	0.3	5.08	7.6	5.0
MHR0309SA○○○△□□	1	1,000	3.5	5	0.5	7.62	10.1	5.0
MHR0312SA○○○△□□	1	1,000	5	7.5	0.6	10.16	12.6	5.0
MHR0314SA○○○△□□	1	1,000	6	10	0.7	12.7	15.1	5.0
MHR0317SA○○○△□□	1	1,000	7	12	0.8	15.24	17.6	5.0
MHR0319SA○○○△□□	1	2,000	8	14	1.0	17.78	20.2	5.0
MHR0409SA○○○△□□	1	1,000	3.5	10	0.6	7.62	10.1	6.5
MHR0412SA○○○△□□	1	1,000	5	10	0.8	10.16	12.6	6.5
MHR0414SA○○○△□□	1	1,000	6	10	1.0	12.70	15.1	6.5
MHR0417SA○○○△□□	1	2,000	7	12	1.1	15.24	17.6	6.5
MHR0419SA○○○△□□	1	2,000	8	14	1.2	17.78	20.2	6.5
MHR0422SA○○○△□□	1	2,000	9	16	1.3	20.32	22.7	6.5
MHR0424SA○○○△□□	1	2,000	10	18	1.4	22.86	25.3	6.5
MHR0429SA○○○△□□	1	2,000	12	22	1.7	27.94	30.5	6.5
MHR0609SA○○○△□□	1	1,000	3.5	10	0.8	7.62	10.1	9.0
MHR0612SA○○○△□□	1	2,000	5	10	1.0	10.16	12.6	9.0
MHR0614SA○○○△□□	1	2,000	6	12	1.2	12.70	15.1	9.0
MHR0617SA○○○△□□	1	2,000	7	14	1.3	15.24	17.6	9.0
MHR0619SA○○○△□□	1	2,000	8	16	1.4	17.78	20.2	9.0
MHR0622SA○○○△□□	1	10,000	9	18	1.5	20.32	22.7	9.0
MHR0624SA○○○△□□	1	1,000	10	20	1.6	22.86	25.3	9.0
MHR0844SA○○○△□□	1	2,000	20	35	2.5	40.64	46.0	10.0

○○○ ⋯ Resistance Value   △ ⋯ Resistance Tolerance   □□ ⋯ Individual Specifications
* Please contact us for custom products etc.
*1) Resistance (R) • rated voltage (E) • rated power (P) will be calculated from the following formula.
   $E = \sqrt{P \cdot R}$
   When the rated voltage exceeds the maximum operating voltage, the maximum operating voltage will be the rated voltage.

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