Product Specification Sheet

Terminal Block Type Resistance Unit

DESCRIPTION

The MS3000TH is a terminal block type shunt resistor.

ORDERING CODE

	MS3000TH - 🖵
Model —	
Resistance —	
10 : 10Ω	
50 : 50Ω	
100 : 100Ω	
250 : 250Ω	
500 : 500Ω	
1k : 1kΩ	
Z : Other resistance	
Ontions —	

Options

No code: None **/X**: Special order

* For non-standard options, ask MTT for availability.

ORDERING INFORMATION

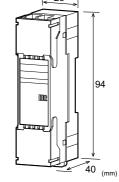
To place an order, please use the ordering code format as shown above.

(e.g.) MS3000TH-50

SPECIFICATIONS

PERFORMANCE

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Resistance	10Ω , 50Ω , 100Ω , 250Ω , 500Ω , $1k\Omega$,
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		or other resistance
$\begin{tabular}{lll} \hline Tolerance & & & & & & & \\ \hline Temperature & & & & & & & \\ \hline Coefficient & & & & & & \\ \hline Allowable & & & & & & \\ \hline Overcurrent & & & & & & \\ \hline S0\Omega: 220mA & & & & \\ \hline S0\Omega: 100mA & & & \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$	Power Rating	0.5W
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Resistance	±0.2%
	Tolerance	
$ \begin{array}{c c} \text{Allowable} & 10\Omega \colon 220\text{mA} \\ \text{Overcurrent} & 50\Omega \colon 100\text{mA} \\ & 100\Omega \colon 70\text{mA} \\ & 250\Omega \colon 44\text{mA} \\ & 500\Omega \colon 31\text{mA} \\ & 1k\Omega \colon 22\text{mA} \\ \end{array} $ $ \begin{array}{c c} \text{Operating} & \text{Ambient temperature: -5 to 55°C} \\ \text{Environment} & \text{Humidity: 5 to 90\% RH} \\ & & (\text{non-condensing}) \\ \end{array} $ $ \text{Storage} & -10 \text{ to } 60^{\circ}\text{C} \\ \end{array} $	Temperature	25ppm/°C
$\begin{array}{c} \text{Overcurrent} & 50\Omega\text{: }100\text{mA} \\ & 100\Omega\text{: }70\text{mA} \\ & 250\Omega\text{: }44\text{mA} \\ & 500\Omega\text{: }31\text{mA} \\ & 1k\Omega\text{: }22\text{mA} \\ \hline \text{Operating} & \text{Ambient temperature: }-5\text{ to }55^{\circ}\text{C} \\ \text{Environment} & \text{Humidity: }5\text{ to }90\%\text{ RH} \\ & \text{(non-condensing)} \\ \hline \text{Storage} & -10\text{ to }60^{\circ}\text{C} \\ \end{array}$	Coefficient	
$\begin{array}{c} 100\Omega\text{: }70\text{mA} \\ 250\Omega\text{: }44\text{mA} \\ 500\Omega\text{: }31\text{mA} \\ 1k\Omega\text{: }22\text{mA} \\ \\ \hline \text{Operating} \qquad \qquad \text{Ambient temperature: -5 to 55°C} \\ \text{Environment} \qquad \qquad \text{Humidity: 5 to 90% RH} \\ \hline \qquad \qquad$	Allowable	10Ω: 220mA
$\begin{array}{c} 250\Omega\text{: }44\text{mA} \\ 500\Omega\text{: }31\text{mA} \\ 1k\Omega\text{: }22\text{mA} \\ \hline \text{Operating} \qquad \qquad \text{Ambient temperature: -5 to 55°C} \\ \text{Environment} \qquad \qquad \text{Humidity: 5 to 90% RH} \\ \hline \qquad \qquad$	Overcurrent	50Ω: 100mA
$\begin{array}{c} 500\Omega\text{: }31\text{mA} \\ 1k\Omega\text{: }22\text{mA} \\ \hline \text{Operating} \qquad \text{Ambient temperature: -5 to 55°C} \\ \text{Environment} \qquad \text{Humidity: 5 to 90% RH} \\ \hline \text{(non-condensing)} \\ \hline \text{Storage} \qquad -10 \text{ to }60^{\circ}\text{C} \\ \hline \end{array}$		100Ω: 70mA
		250Ω: 44mA
Operating Ambient temperature: -5 to 55°C Environment Humidity: 5 to 90% RH (non-condensing) Storage -10 to 60°C		500Ω: 31mA
Environment Humidity: 5 to 90% RH (non-condensing) Storage -10 to 60°C		1kΩ: 22mA
(non-condensing) Storage -10 to 60°C	Operating	Ambient temperature: -5 to 55°C
Storage -10 to 60°C	Environment	Humidity: 5 to 90% RH
oto.ago		(non-condensing)
Temperature	Storage	-10 to 60°C
	Temperature	





Model: MS3000TH

PHYSICAL

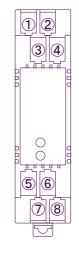
Installation	DIN rail mounting
Wiring	M3.5 screw terminal connection
	(with drop-out prevention screws)
Screwing Torque	0.8 to 1.0 [Nm] * Recommended
External	$W25.0 \times H94.0 \times D40.0$ mm
Dimensions	
Weight	90g max.

MATERIALS

•	
Housing	ABS resin (UL 94V-0)
Screw Terminal	Nickel-plated steel
Printed Circuit	Glass fabric epoxy resin
Board	(FR-4: UL 94V-0)
Anti-Humidity	HumiSeal® 1A27NS (Polyurethane)
Coating	

^{*} HumiSeal® is a registered trademark of Chase Corporation.

TERMINAL ASSIGNMENT



1	N.C.
2	N.C.
3	Line A
4	Line A
(5)	Line a
6	Line b
7	N.C.
8	N.C.

BLOCK DIAGRAM

