

MNT Aluminium Case resistor

- Feature
- Application
- Product structure
- Ordering Information
- Dimensions
- Derating curve
- Power And Resistance etc
- Performance

(KKT) MNT Aluminium Case resistor



Features

I .High power, fast heat dissipation, high shock resistance, high stability, long service life, can brake frequently and instantaneously, can work for a long time, resistance value will not change too much, product consistency is high.

Application

Inverter, servo motor, servo driver, power load, elevator, lifting, medium frequency furnace, electric furnace, induction heating equipment industry, new energy vehicle manufacturing, wind power pitch system, wind power electronic control system and converter, solar photovoltaic inverter industry, small and medium-sized wind turbine (including grid connected / off grid type), medical equipment Machinery industry (such as paper machine), communication industry, rail transit, railway locomotive, power system, fan load, mining equipment, transformer, CNC machine tool, reactive power compensation device, laser industry, aviation, shipbuilding, military industry, State Grid, engineering supporting, major universities and design and research institutes.

Product structure

- I .The core parts of the resistance core are made of insulating and high temperature resistant materials as the resistance framework, evenly wound with high-quality alloy wires, and sealed with high-quality and high thermal conductivity organic quartz sand, so that the metal aluminum shell and the core parts of the resistance are closely combined into a solid entity, free from the influence of external air and dust, It has high stability and thermal conductivity.
- II. The aluminum shell is made of high-quality industrial 6063 aluminum, and the surface is treated with high-temperature anodizing silver mist or bright silver to achieve better appearance and insulation heat dissipation effect.
- According to the resistance to bear different current size, the leading end is connected with high-quality high-temperature braided wire (no fuzzing, no allergy) or copper guide, stainless steel guide, which is convenient for customers to connect at will.
- IV We have 46 aluminum shell models of different styles to facilitate customer selection; Can accept a variety of non-standard customization, all-round to meet customer needs.

Ordering Information

Example:

MNT	4020	50	J	100R0	C1	N
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Series Name	Size	Power	Resistance	Resistance	T.C.R	No Sense Code

(1) Type: MNT Series

(2)Size:4020,6030,7045,50107,12840,17565,175145,175220

(3) Power Rating: 40=40W,50=50W,100=100W,200=200W,800=800W......

(4) Tolerance: $G = \pm 2\%$, $J = \pm 5\%$, $K = \pm 10\%$

(5) Resistance Value: R100=0.1 Ω , 1R00=1 Ω , 10R0=10 Ω , 100R0=100 Ω

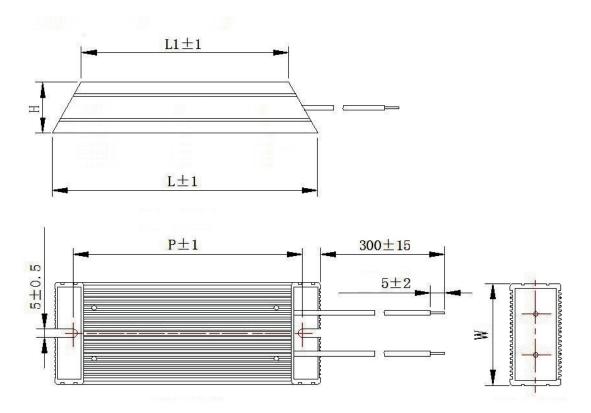
(6)T.C.R:C4= ± 20 PPM/°C,C2= ± 50 PPM/°C,C1= ± 100 PPM/°C

(7) No Sense Code: N

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Dimensions

MNT 4020/6030 40W-800W



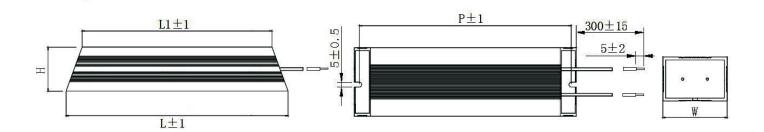
Туре	Rated	Resistance		Dimen				
	power (25°C)	$Range(\Omega)$	L±3.0	W±0.5	H±0.5	P ± 1.0	L1 ± 1.0	Note
	40W		90	40	20	75	60	1.Resistance value can be customized according to
	50W-60W		115	40	20	100	85	customer requirements
MNT 4020	80W-100W		140	40	20	125	110	2.Resistance tolerance is generally \pm 5%, or \pm 1%
	120W-150W		185	40	20	170	155	~ ±5% according to customer requirements 3. The lead end uses white braided high temperature
	200W-250W	$0.1\Omega \sim 100 \mathrm{K}\Omega$	165	60	30	150	130	
MNT 6030	300W		215	60	30	200	180	wire, can withstand the temperature of 300°C,
WIN 1 0030	400W		265	60	30	250	230	the end strip 5mm
	500W-600W		335	60	30	320	300	4.The dimensions of part W and part H are interchangeable
	700W-800W		365	60	30	350	330	

Note: if there are special requirements or parameters beyond the above standard can be negotiated supply, can be changed as follows

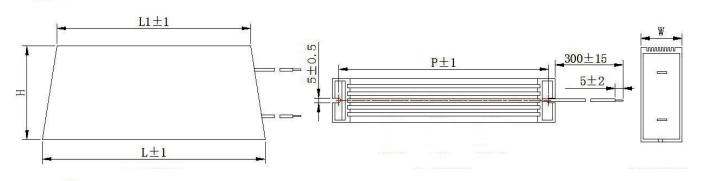
- 1. Dimensions of aluminum case
- 2.Color of aluminum case.
- 3. Dimensions of mounting holes
- 4. Center distance of mounting hole
- 5. Material, wire diameter and length of lead end

MNT 7045/50107 1KW-2KW

MNT 7045



MNT 50107



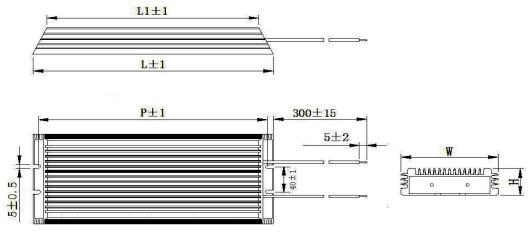
Туре	Rated power	Resistance			Dimens	ım)	Note	
	(25°C)	$Range(\Omega)$	L±3.0	$W \pm 0.5$	H±0.5	P ± 1.0	L1 ± 1.0	TVOIC
	1.0KW		335	70	45	320	300	1.Resistance value can be customized
	1.2KW		400	70	45	385	365	according to customer requirements 2. Resistance tolerance is generally \pm 5%,
MNT 7045	1.5KW		450	70	45	435	415	or $\pm 1\% \sim \pm 5\%$ according to custome requirements
	2.0KW		500	70	45	485	465	3. The lead end uses white braided high temperature wire, can withstand the
	1.0KW	$0.1\Omega \sim 100 \mathrm{K}\Omega$	335	50	107	320	300	temperature of 300°C, the end strip
MNT 50107	1.2KW		400	50	107	385	365	4.The dimensions of part W and part H
WIINT 30107	1.5KW		450	50	107	435	415	are interchangeable
	2.0KW		500	50	107	485	465	

Note: if there are special requirements or parameters beyond the above standard can be negotiated supply, can be changed as follows

- 1. Dimensions of aluminum case
- 2. Color of aluminum case.
- 3. Dimensions of mounting holes
- 4. Center distance of mounting hole
- 5. Material, wire diameter and length of lead end

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MNT 12840 2KW-3KW

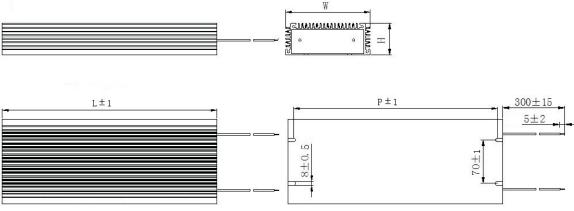


Туре	Rated	Resistance		25(9)	Dimen	Note		
	power (25°C)	$Range(\Omega)$	L±3.0	$W \pm 0.5$	H±0.5	P±1.0	L1 ± 1.0	1.Resistance value can be customized according to customer requirements 2.Resistance tolerance is generally ±5%,
	2.0KW		265	128	40	250	235	or $\pm 1\% \sim \pm 5\%$ according to custon requirements 3. The lead end uses white braided high
MNT 12840	2.5KW	$0.1\Omega \sim 100 \mathrm{K}\Omega$	290	128	40	275	260	temperature wire, can withstand the temperature of 300°C, the end strip 5mm
	3.0KW		335	128	40	320	300	4. The dimensions of part W and part H are interchangeable

Note: if there are special requirements or parameters beyond the above standard can be negotiated supply, can be changed as follows

- 1. Dimensions of aluminum case
- 2. Color of aluminum case.
- 3. Dimensions of mounting holes
- 4. Center distance of mounting hole
- 5. Material, wire diameter and length of lead end

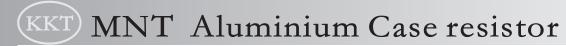
MNT 17565 4KW-6KW



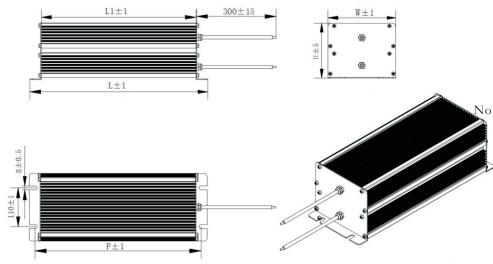
Туре	Rated power	Resistance Range(Ω)			Dime	Note		
	(25°C)		L±3.0	$W \pm 0.5$	H±0.5	P±1.0	L1 ± 1.0	1.Resistance value can be customized according to customer requirements 2.Resistance tolerance is generally $\pm 5\%$, or $\pm 1\% \sim \pm 5\%$ according to customer
	4.0KW		400	175	65	380	235	requirements 3.The lead end uses white braided high
MNT 17565	5.0KW	$0.1\Omega \sim 100 \mathrm{K}\Omega$	500	175	65	480	260	temperature wire, can withstand the temperature of 300°C, the end strip 5mm
	6.0KW		600	175	65	580	300	4.The dimensions of part W and part H are interchangeable

Note: if there are special requirements or parameters beyond the above standard can be negotiated supply, can be changed as follows

- 1. Dimensions of aluminum case
- 2.Color of aluminum case.
- 3. Dimensions of mounting holes
- 4. Center distance of mounting hole
- 5. Material, wire diameter and length of lead end



MNT 175145 8KW-12KW

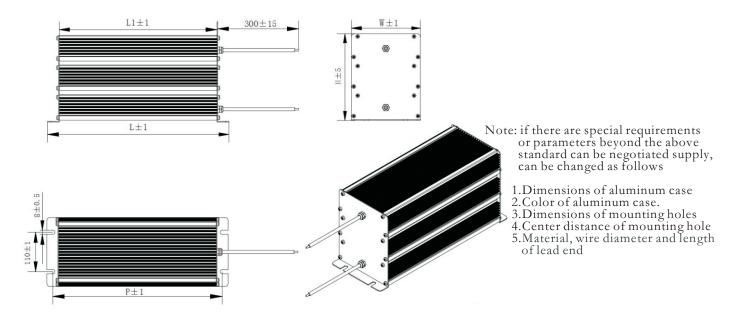


Note: if there are special requirements or parameters beyond the above standard can be negotiated supply, can be changed as follows

- 1. Dimensions of aluminum case
- 2.Color of aluminum case.
 3.Dimensions of mounting holes
- 4. Center distance of mounting hole 5. Material, wire diameter and length

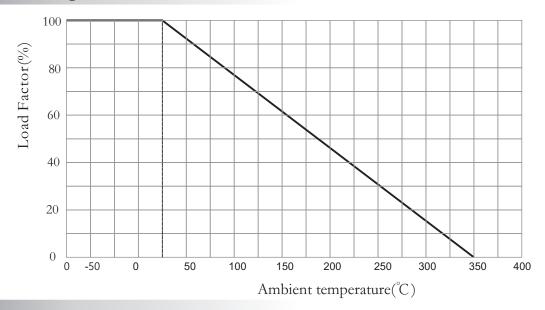
Туре	Rated power	Resistance			Dime	Note		
	(25°C)	$Range(\Omega)$	L±3.0	$W \pm 0.5$	H±0.5	P±1.0	L1 ± 1.0	2. Resistance tolerance is generally $\pm 5\%$,
	8.0KW		494	175	145	472	450	or ±1% ~ ±5% according to custom requirements 3.The lead end uses white braided high
MNT 175145	10KW	$0.1\Omega\sim100\mathrm{K}\Omega$	594	175	145	572	550	temperature wire, can withstand the temperature of 300°C, the end strip
	12KW		644	175	145	622	600	5mm 4.The dimensions of part W and part H are interchangeable

MNT 175220 15KW-30KW



Туре	Rated power	Resistance			Dime	mm)	Note	
	(25°C)	$Range(\Omega)$	L±3.0	W ± 0.5	H±0.5	P±1.0	L1 ± 1.0	1.Resistance value can be customized according to customer requirements
	15KW		494	175	220	472	450	2.Resistance tolerance is generally ± 5% or ±1% ~ ±5% according to custom requirements 3.The lead end uses white braided high temperature wire, can withstand the temperature of 300°C, the end strip
MNT 17522	0 20KW	$0.1\Omega \sim 100 \mathrm{K}\Omega$	544	175	220	522	500	
	25KW		594	175	220	572	550	5mm 4.The dimensions of part W and part H
	30KW		644	175	220	622	600	are interchangeable

Derating curve



Power And Resistance etc

Туре	Power Rating at 25°C (W)	Resistance Range(Ω)	Tolerance	T.C.R PPM/°C	Insulation resistance(V)	Dielectric withstanding voltage (V)
MNT 4020	40W 50W-60W 80W-100W 120W-150W					
MNT 6030	200W-250W 300W 400W 500W-600W	$0.1\Omega{\sim}100\mathrm{K}\Omega$	± 0.5% ± 1% ± 2%	±250PPM/°C	1000VDC	2000VDC
MNT 7045	700W-800W 1.0KW 1.2KW 1.5KW 2.0KW		± 5% ± 10%	Max		1 minute
MNT 50107	1.0KW 1.2KW 1.5KW 2.0KW					
MNT 12840	2.0KW 2.5KW 3.0KW					
MNT 17565	4.0KW 5.0KW 6.0KW					
MNT 175145	12.0KW					
MNT 175220	15.0KW 20.0KW 25.0KW 30.0KW					

Performance

Testitem	Test condition	Specifications
Resistance tolerance	JIS-C-5202 5-1	Resistance Nominal Tolerance
		$1 \le R \ 1 > R \ \pm 5\%(J) \ \pm 10\%(K)$
Temperature coefficient	JIS-C-5202 5-2	±250PPM/°C Max
Power rating load	JIS-C-5202 5-4 40°C,	$\triangle R \le \pm (1\% + 0.1\Omega)$ Surface
	power rating 1H	temperature up ≤350°C MAX
Short-term overload	JIS-C-5202 5-5, 500%	Free or appearance or structural irregularity
	rated power 5 seconds	$\triangle R \leq \pm (2\% + 0.1\Omega)$
Insulation resistance	JIS-C-5202 5-6 1000V DC	100 MΩ Min
Dielectric withstanding voltage	JIS-C-5202 5-7, 2000V DC 1 minute	Free or appearance or structural irregularity
		$\triangle R/R \le \pm (0.1\% + 0.05\Omega)$
Terminal strength	JIS-C-5202 6-1 MNI 8kg 30s	Free of appearance or structural irregularity
Resistor strength	JIS-C-5202 6-2 MNI 30kg 30s	Free of appearance or structural irregularity
Vibration	JIS-C-5202 6-3 1.5mm,10-50-10Hz	Free or appearance or structural irregularity
	min X-Y-Z 2 hours each	Surface coating crack $\triangle R \le \pm (1\% + 0.05\Omega)$
Thermal shock	JIS-C-5202 7-3 Room temp 30 minutes	Resistor free of structural irregularity crack
	ON-55°C 15 minutes OFF	of silicon cement surface $\triangle R \le \pm (2\% + 0.1\Omega)$
Humidity	JIS-C-5202 7-5, 40°C 90%RH 240H	Free or appearance or structural irregularity
•		Surface coating crack $\Delta R/R \le \pm (3\% + 0.1\Omega)$
Load life	JIS-C-5202 7-10, 90Min ON-30Minutes	Free of appearance or structural irregularity
	OFF 500H	Discoloration of marking $\triangle R \le \pm (3\% + 0.1\Omega)$