

1. Scope:

1.1 This specification is applicable of "**ZERO**" milli-ohm resistor (Jumper) products.

2. Explanation of Part Numbers:

Type	Size (inch)	Rated Power	Packaging*	Resistance Tolerance	Nominal Resistance
Current Jumper Chip Resistor	0805 1206 2512	1= 1.0 W 2= 2.0 W 3= 3.0 W	4=4,000pcs 5=5,000pcs	$\leq 0.2\text{m}\Omega$	R000 = Below 0.20mΩ

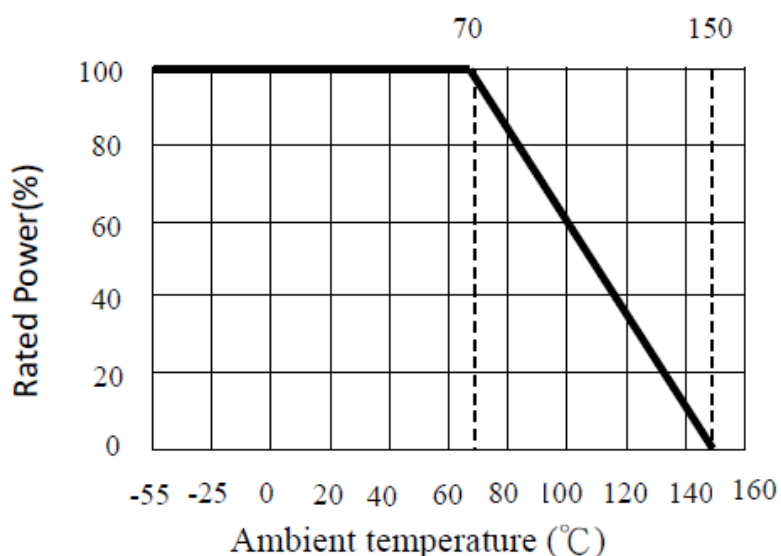
Remark: "*"The packaging quantity please refers to paragraph 8.

3. Product Specifications:

Type 類別	# of Terminals 電極端數目	Rating Power at 70C 額定功率在攝氏70度(W)	Max. Loading Current 最大負載電流(A)	Resistance (mΩ) 電阻值	Operating Temperature 操作溫度
CPM0805	2	1.0	70.7	≤ 0.2	-55~+170°C
CPM1206		1.0	70.7		
CPM2512		2.0	100		

4. Power Derating Curve:

For resistors operated in ambient temperatures 70°C, power rating must be derated in accordance with the curve below:



5. Rating Current:

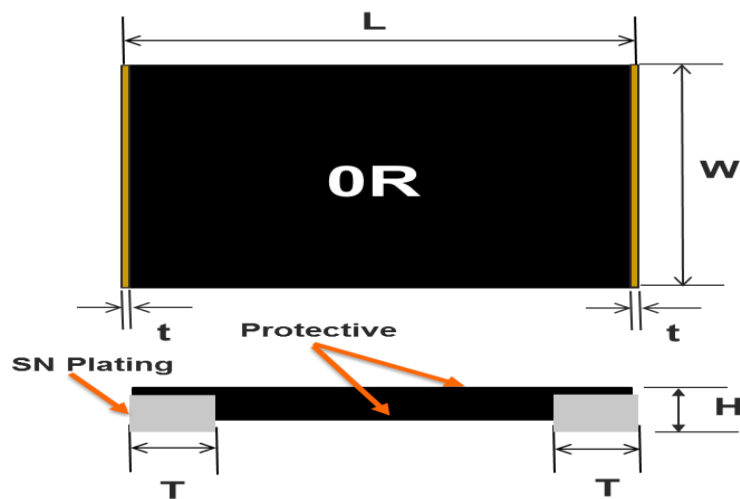
The following equation may be used to determine the DC (Direct Current) or AC (Alternating Current) currents (RMS, root mean square value) of normal rated power. However, if the result value exceeds the highest current of regulated standards, the highest normal rated power is to be used.

Remark:

$$I = \sqrt{P/R}$$

- I: Rated Current.
- P: Rated Power.
- R: Resistance.

6. Physical Dimensions and Marking:

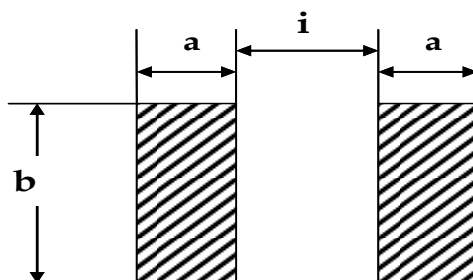


Type	Dimensions - in millimeters				
	L	W	H	T	t
CPM0805	2.000±0.250	1.300±0.300	0.450±0.200	0.400±0.200	0
CPM1206	3.200±0.254	1.650±0.254	0.650±0.254	0.508±0.254	0.508±0.254
CPM2512	6.350±0.254	3.050±0.254	0.650±0.254	1.100±0.254	1.100±0.254

7. Reliability Performance:

Test Items	Conditions of Test	Test Limits
Thermal Shock	-55°C to +170°C, 1,000cycles, 15min at each extreme (JIS_C5202-7.4)	$\leq 0.2 \text{ m}\Omega$
Short Time Overload	4 times rated power for 5secs (JIS-C5202-5.5)	$\leq 0.2 \text{ m}\Omega$
Load Life	1,000hrs@70 °C, 1.5hrs "ON", 0.5hrs "OFF" (JIS_C5202-7.10)	$\leq 0.2 \text{ m}\Omega$
Damp heat with load	1,000hrs@+85°C/85%RH, Bias 1.5hrs "ON", 0.5hrs "OFF"	$\leq 0.2 \text{ m}\Omega$
High Temperature Exposure	1,000hrs@+170°C (JIS_C5202-7.2)	$\leq 0.2 \text{ m}\Omega$
Solderability	245±5°C for 2±0.5secs	>95% coverage

8. Recommend Land Pattern:



Type	Dimensions - in millimeters		
	a	b	i
CPM0805	1.00	1.80	1.00
CPM1206	1.46	2.15	1.68
CPM2512	2.30	3.68	3.15

9. Packaging:

Model	Tape Width	Diameter	Piece/reel
CPM0805	8 mm/embossed plastic	178 mm/7"	5,000
CPM1206	8 mm/embossed plastic	178 mm/7"	5,000
CPM2512	12 mm/embossed plastic	178 mm/7"	4,000