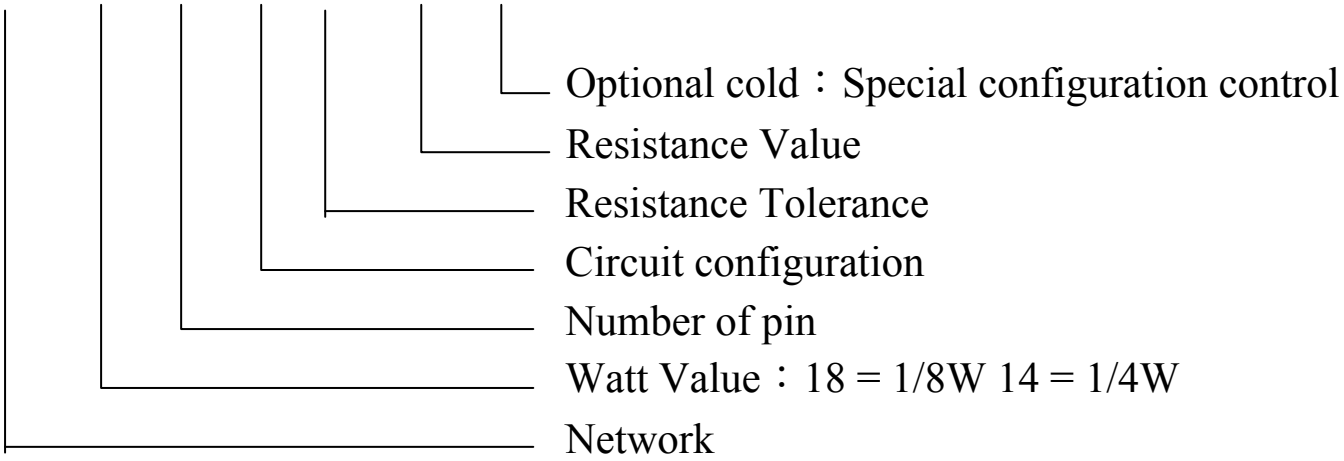
公司名稱 Company Name	品真電工股份有限公司 MAX-QUALITY ELECTRIC CO; LTD.
品名 Product Name	排列電阻 **NETWORKS TYPE FOR RW**

1. Scope

This specification based on our company's standard quality level is applicable to film resistors SIP NETWORK series

2. Ordering tree：

RW 18 05 A F 102 O



RW1804AG1020---4Pin A Type 1K ohm ±2% 1/8W
RW1804BG1020---4Pin B Type 1K ohm ±2% 1/8W
RW1809AG1020---9Pin A Type 1K ohm ±2% 1/8W
RW1809BG1020---9Pin B Type 1K ohm ±2% 1/8W
RW1410TG1030---10Pin T Type 10K ohm ±2% 1/4W

2.1 Number of elements：

Number of elements for Resistor NETWORK

2.2 Shape

Shape for our company's Resistor NETWORK

2.3 Circuit configurations：

Please refer to below table-1

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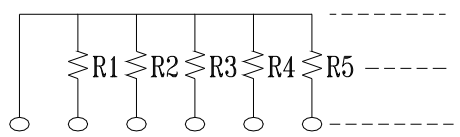
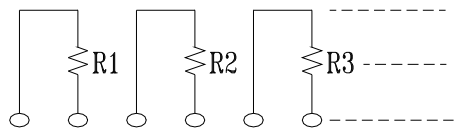
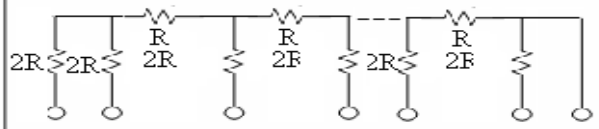
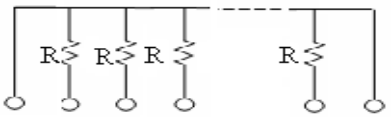
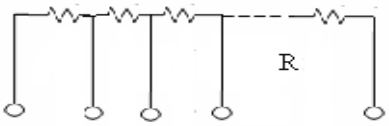
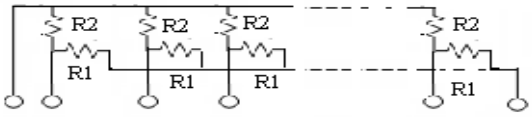
品名 Product Name	排列電阻 **NETWORKS TYPE FOR RW**

Tablc-1

Circuit Symbol	A
Circuit Configuration	
Circuit Symbol	B
Circuit Configuration	

* Customer Designed Resistor Networks Are Available.

2.4

Circuit Symbol	T TYPE
Circuit Configuration	
Circuit Symbol	L TYPE
Circuit Configuration	
Circuit Symbol	D TYPE
Circuit Configuration	
Circuit Symbol	E TYPE
Circuit Configuration	

2.5 Tolerances：

F：± 1%　G：± 2%　　J：± 5%

2.6 Resistance Value：

Example 472 ⟶ （47 x 100）ohm ＝ 4K7 Ω(ohm)

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品名 Product Name	排列電阻 **NETWORKS TYPE FOR RW**

3. Standard Specification：

Please refer to below table-2

Clause	Function
Element standard working watt	0.125~0.25 W / Element
Element surge voltage	150 Voltage
Standard operating temperature	70℃
Operating temperature	2.2Ω ~ 2.2MΩ

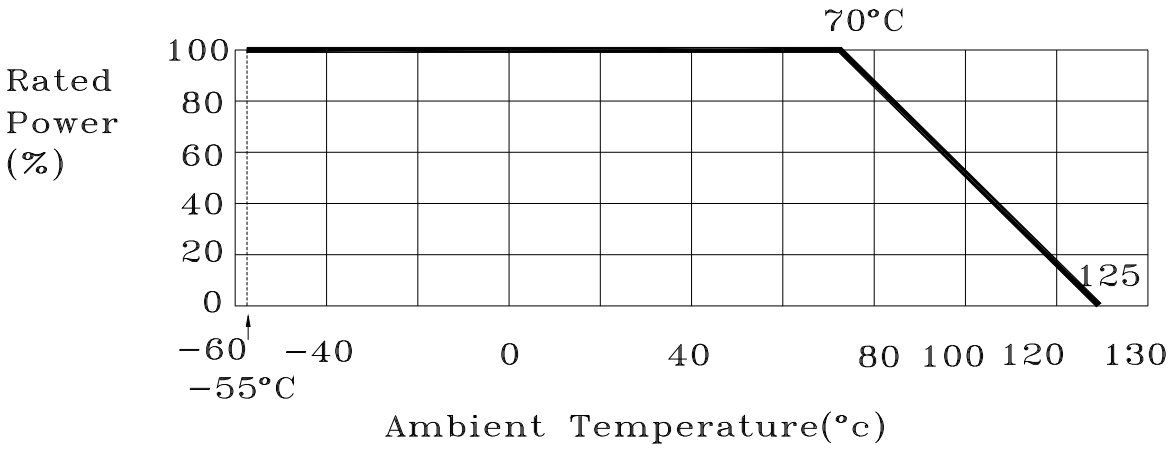
3.1 Element standard working watt：

This is maximum watt applicable to continuous use.

Based on temperature max70℃.

Please refer to below Graph – 1 With respect to watt over 70℃

Sketch -1



3.2 Element standard working voltage：

This is Voltage for DC or AC as opposed to element standard working watt.]

Please refer to below calculation system.

But even if value from below calculation is over.

Element surge voltage 150voltage is max.

$E = \sqrt{P.R}$ E = Element standard voltage

P = Element standard watt

R = Resistance value / element

4. Outside view：

The Color of dip is black also marking is whit or silver.

4.1 Appearance dimension ：

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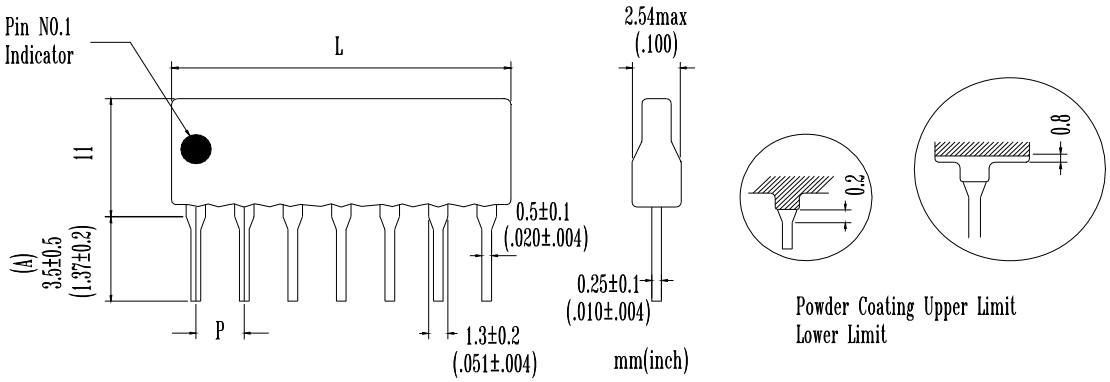
Please refer to below sketch -2 and -3.

Sketch -2



4.2

Pin Length (A) 3.5±0.5

Type	W max. mm(inch)	L max. mm(inch)	P mm(inch)	Pin No	Element No
Low profile (1/8W)	5.08 (.200)	Pin No.x2.54+0.25 (Pin No.x.100+0.010)	2.54±0.2 (.100±.008)	4-12	3-11
High profile (1/4W)				4-12	2-6

4.3 Marking：

(1) No.1 contact mark

(2) Pins , Example：5 ＝ 5 Pins

(3) Circuit configurations

(4) Resistance value

(5) Tolerance

4.4 Contact：

Every contact completely terminates electrically and mechanically

Shape of contact is rectangle and must be easy to solder.

4.5 Number of elements：

Number of elements for resistor NETWORK RW series is complied with table -4

公司名稱 Company Name	品真電工股份有限公司 MAX-QUALITY ELECTRIC CO; LTD.
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table -4

Circuit Configurations Mark	NBR Of Elements
A Type	3 ~ 13
B Type	2 ~ 7
T Type	6 ~ 18
E Type	4 ~ 24
L Type	2 ~ 12
D Type	3 ~ 13

5. Function：

Please refer to table -5

table -5

Clause	Function
Resistance value	Must be within regulated tolerance of resistance value
Temperature Coefficient(T.C.R.)	Within ± 100ppm/℃(JIS-C-5202.5.2B)
Short time overload	Within ±(1%+0.05Ω)(JIS-C-5202.5.5)
Lead strength	No evidence of mechanical damage
Resistance to solding heat	Within ±(0.25%+0.05Ω)(JIS-C-5202.6.4)
Solderbility	After immersing flus, dip in the 260℃ Max. solder bath for 3±0.5 Sec.
Temperature cycle	Within ±(1%+0.05Ω)(JIS-C-5202.7.4)
Load lift in moisture	Within ±3% , no defect (JIS-C-5202.7.9)
Load life	Within ±3% , no defect (JIS-C-5202.7.10)
Resistance to solvents	Able to read marking

6. They are high performance and high reliable thick film resistor NETWORKS using materials having excellent characteristics.

Name	Material	Characteristics
Base substrate	Alumina / Ceramic	It has excellent heat conductivity, heat stability and mechanical strength.
Resistor elements	Ruthenium oxide base	It has high resistance against heat and weathering
Conductor	Silver / Palladium	It cause no migration so as to make the design reliable
Terminal	Solder-Lined iron leads	The thick solder lining facilitates the soldering
Outer coating	Epoxy resin paint	It has high resistance against heat and weathering and solvents

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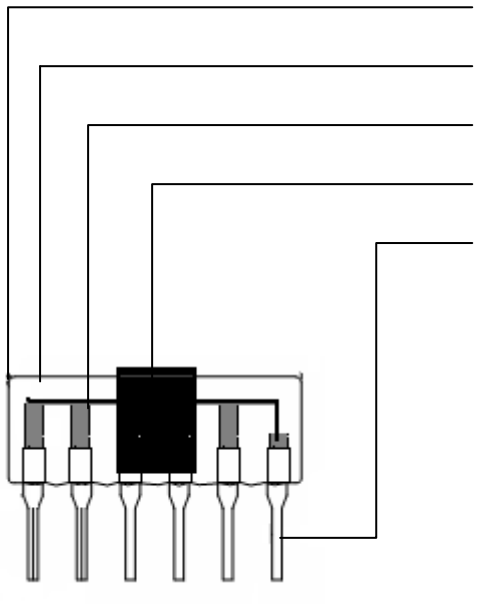

Base substrate – alumina / ceramic
Resistor elements – ruthenium oxide base
Conductor – silver / palladinm
Outer coation – epoxy resin paint
Terminal – solder hined iron leads

7. Rating

Style	Power Rating		Max Working Voltage	Max Overload Voltage	Rating Ambient Temp.	Resistance Range.	Resistance Tolerance
	Other Type	B Type					
RW18	0.125W	0.20W	150V	250V	70℃	10Ω~1M	J(5%) G(2%) F(1%)
RW14	0.250W	0.35W	200V	280V			

8. Packing (Box dimension)

Burst test 8g f / cm^2

Material ：5 / 5

Quantity：4~6 pin：2000 pcs / Box
7~10 pin：1000 pcs / Box
11~14 pin：500 pcs / Box

Unit ：mm

a	**56 ±2**
b	**125 ±2**
c	**150 ±2**