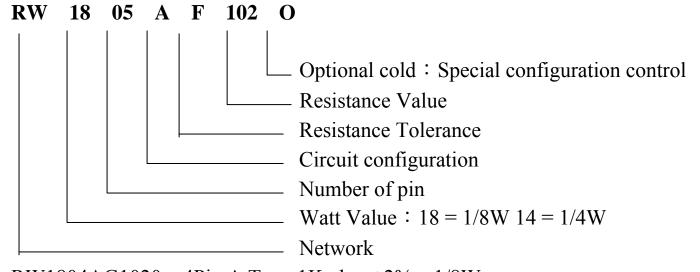
公司名稱 Company Name	TOP-QUALITY ELECTRIC CO; LTD.	
品名	排列電阻	
Product Name	NETWORKS TYPE FOR RW	

1. Scope

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

2. Ordering tree:



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 $\pm 2\%$ 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

公司名稱 Company Name	TOP-QUALITY ELECTRIC CO; LTD.
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Tablc-1

Circuit Symbol	A		
Circuit Configuration	R1 > R2 > R3 > R4 > R5		
Circuit Symbol	В		
Circuit Configuration	R1		

* Customer Designed Resistor Networks Are Available.

2.4

Circuit Symbol	T TYPE		
Circuit Configuration	R R R R R R R R R R R R R R R R R R R		
Circuit Symbol	L TYPE		
Circuit Configuration	R\$ R\$ R\$		
Circuit Symbol	D TYPE		
Circuit Configuration	T R R		
Circuit Symbol	E TYPE		
Circuit Configuration	\$ R2		

2.5 Tolerances:

 $F: \pm 1\% \quad G: \pm 2\% \quad J: \pm 5\%$

2.6 Resistance Value:

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

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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	$2.2\Omega \sim 2.2M\Omega$

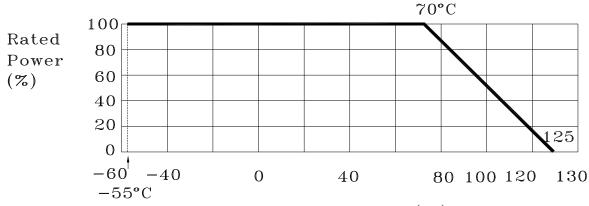
3.1 Element standard working watt:

This is maximum watt applicable to continuous use.

Based on temperature max 70° C.

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

Sketch -1



Ambient Temperature(°c)

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:

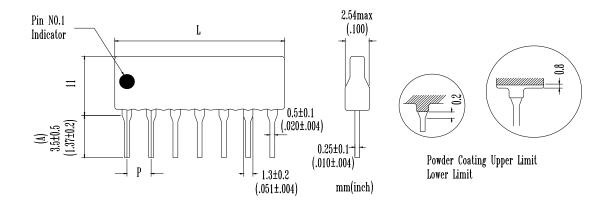
The Color of dip is black also marking is whit or silver.

4.1 Appearance dimension:

公司名稱	TOP-QUALITY ELECTRIC CO; LTD.	
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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	Pin No.x2.54+0.25	2.54±0.2	4-12	3-11
High profile (1/4W)	(.200)	(Pin No.x.100+0.010)	(.100±.008)	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	TOP-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

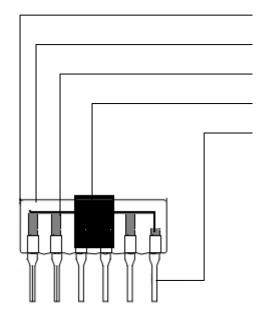
table -5

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

公司名稱 Company Name	TOP-QUALITY ELECTRIC CO; LTD.
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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	Max	Rating	Pagistanaa	Resistance	
	Style	Other	В Туре	Working	Overload	Ambient	Range.	Tolerance
		Type		Voltage	Voltage	Temp.		
I	RW18	0.125W	0.20W	150V	250V	70°C	10Ω~1M	J(5%)
I	RW14	0.250W	0.35W	200V	280V			G(2%) F(1%)

8. Packing (Box dimension)

Burst test $8g f/cm^2$

Material: 5/5

Quantity: 4~6 pin: 2000 pcs / Box

 $7\sim10 \text{ pin}$: 1000 pcs / Box

 $11\sim14 \text{ pin} : 500 \text{ pcs} / \text{Box}$

Unit : mm

a	a 56 ±2	
b	125 ±2	
С	150 ±2	

