香港電阻

香 港 電 阻 製 造 廠

香港柴湾安业街十二号长益工业大厦 **10** 字楼 **A** 座

HONG KONG RESISTORS MANUFACTORY

(wholly owned by Hong Kong Resistors Manufactory International Ltd.)

AN ISO 9001:2015 CERTIFIED MANUFACTURER

AN ISO 45001: 2018 MANUFACTURER

AN ISO 14001: 2015 MANUFACTURER

10A Cheong Yick Industrial Building, 12 On Yip St., Chai Wan, Hong Kong

Tel.: (852)28962782 Fax.: (852) 28965291

国内工厂一 ：东莞溢辉电子有限公司

地址 : 东莞市虎门镇怀德社区蔗寮工业区 4 号

Tel.: (86 769)83315373 Fax.: (86 769) 83311603

国内工厂二:恒辉电阻(益阳)有限公司

地址 ：湖南省益阳市资阳区长春工业园五福路

Tel.: (86 737)3800399 Fax.: (86 737) 3800199

国内工厂三：南充溢辉电子科技有限公司

地址：四川省南充市高坪区航空港工业园区

Tel.: (86 817) 3315 388 Fax.:(86 817)3315 388

DATASHEET

Name of Product: RESISTOR NETWORK (网络排阻 RA 系列)

Sales Executive:_____ Date:_____

制造 Prepared by	品质 Quality by	业务 Sales by	核准 Authorized by
客户 customer approval	客户 customer approval	客户 customer approval	客户 customer approval

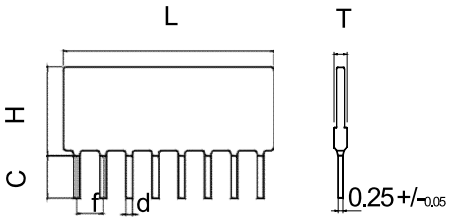
SUBJECT: RESISTOR NETWORK SPECIFICATION SHEET | **PAGE 1 OF 4**

1. Instruction

This sheet is the statement of the resistor network specification that our company productions can meet.

2. Construction & Dimensions

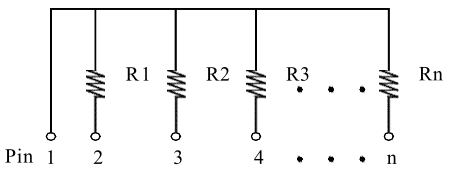
Unit: mm



Style	L (max)	H max RA	H max RB	T (max)	C ±0.50	d ±0.1	f ±0.20
4 pin	10.2	5.80	8.5	2.9	3.5	0.5	2.54
5 pin	12.7						
6 pin	15.3						
7 pin	17.8						
8 pin	20.4						
9 pin	22.9						
10 pin	25.4						
11 pin	28.0						
12 pin	30.5						
13 pin	33.1						
14 pin	35.6						

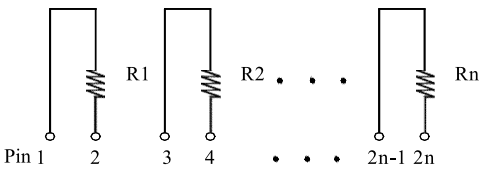
3. Circuit diagram

A

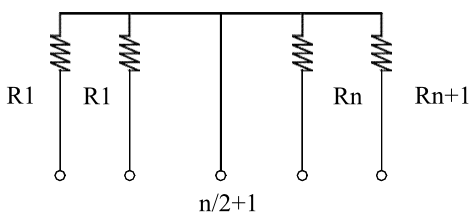


R1=R2=.....=Rn

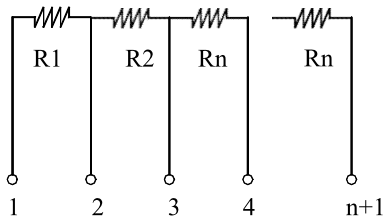
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R1=R2=.....=Rn



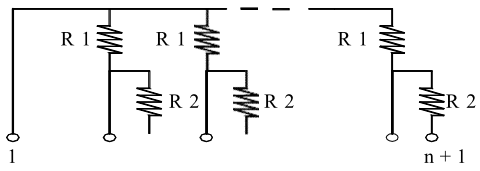
R1=R2=.....=Rn



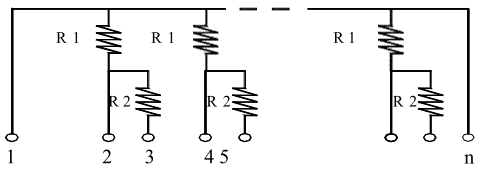
R1=R2=.....=Rn

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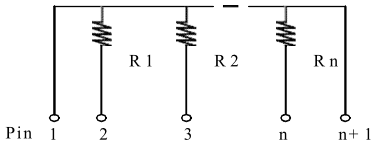
E



P

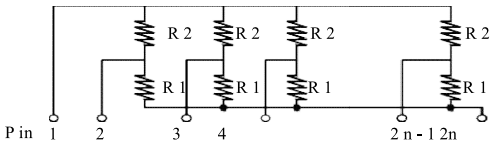


T



R 1 = R 2 = ……= Rn

R



4. How to order

RA	A	09	103	J	F
Series	Circuit style	04= 4 Pin	RES. Value	RES. Tolerance	F=Pb Free
RA= Low power	A style	05= 5 Pin	220= 22 Ω	F = ±1%	
RB= High power	B	06= 6 Pin	101= 100 Ω	G = ±2%	
	C	07= 7 Pin	103= 10K Ω	J = ±5%	
	D	:	105= 1M Ω		
	E	:	1822= 18.2K Ω		
	P	:	1005= 10M Ω		
	R	:			
	T	14=14 Pin			

5. Characteristics

Power rating

Series	Circuit style	Power rating
RA	B	0.2W
	A	0.125W
RB	All Style	0.25W

Mechanical characteristics

Item	Requirement	Test methods
Resistance to soldering heat	△R≤±(1% R_0+0.1 Ω)	With 260±5℃, for 3 sec.
Solder ability	Over 95% of termination must be covered with new solder	After immersing flux, dip in the 235±5℃ molten solder bath for 2±0.5 sec.
Terminal strength (Tensile strength)	△ R≤±(1% R_0+0.1 Ω) No mechanical damage	Tensile: 1kg for 30 sec. Bending: 500g for 2 times
Exterior	No mechanical defect	Visual
Size	Within specification	Vernier calipers

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Electrical characteristics

Item	Requirement	Test methods
DC resistance	Within the specified tolerance	Refer to JIS C 5202 item 5.1
Temperature co-efficient (PPM/^{0}C)	R<50Ω ±250 PPM/^{0}C 50 Ω ≤ R<2.2M Ω ± 100 PPM/^{0}C R≥2.2MΩ ±250 PPM/^{0}C	TCR (PPM/^{0}C)=(R_2-R_1)/[R_1×(T_2-T_1)] T_1：25^{0}C T_2：Test temperature 25/-40/125℃ R_1：Resistance at TEMP. T_1 R_2 ： Resistance at TEMP. T_2
Short-time overload	Δ R≦ ±(1% R_0+0.1 Ω)	2.5 × Rated voltage for 5 sec. (200Vmax.) measure resistance after 30 minutes

Environment test

Item	Requirement	Test methods
Temperature cycle	Δ R≦ ±(1% R_0+0.1 Ω)	Repeat 5 cycles as follows -40^{0}C 室温 125^{0}C 室温 30min 15min 30min 15min
Load life in humidity	Δ R<±(3% R_0+0.1 Ω)	Maintain the temperature of the resistor at 40 ±2^{0}C and 90-95% RH with the rated voltage applied for 1000+40/-0 hours. After two hours, measure value.
Load life	Δ R<±(3% R_0+0.1 Ω)	Permanent resistance change after 1000 +40/-0 hours at RCWV of max., keep the resistor at 70 ± 3^{0}C ambient.

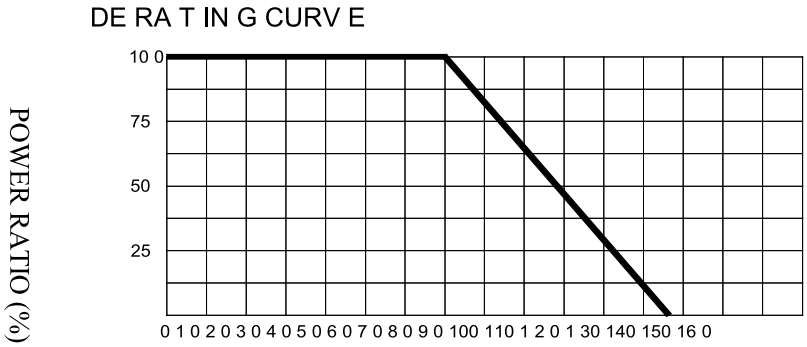
6. Standard Resistance (OHM) E-12 Series

10	12	15	18	22	27	33	39	47	56	68	82
100	120	150	180	220	270	330	390	470	560	680	820
1K	1.2K	1.5K	1.8K	2.2K	2.7K	3.3K	3.9K	4.7K	5.6K	6.8K	8.2K
10K	12K	15K	18K	22K	27K	33K	39K	47K	56K	68K	82K
100K	120K	150K	180K	220K	270K	330K	390K	470K	560K	680K	820K
1M	1.2M	1.5M	1.8M	2.2M							

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7. Dual Terminators (R2/R1) (OHM)

240/120	390/330	390/180	470/330	
270/220	3.3K/1.5K	330/220	6.2K/3.0K	4.7K/3.3K



8. Outgoing inspection sampling plan

1. MIL-STD-105D. Level Ⅱ, Normal inspection
2. Single sampling
3. AQL:

Defective	CR	MA	MI
AQL	0	0.15	1.0

9. Packaging

Standard packing quantity: 200pcs per bag.