

# 宁波宏韵电子有限公司

HUNGYUN ELECTRONICS( NINGBO ) CO.,LTD

## A。电气性能 Electrical specifications

1	总阻值 Total Resistance	电位器 1~3 端全部电阻值。 Measurement shall be made by the resistance between terminal R1 and R3.	100Ω ~2MΩ
2	阻值线性 Resistance taper	电阻值变化规律 Resistance changes	A: 指数 Log B: 直线 Linear C: 对数 Alog
3	总阻值允许差 Total Resistance toleranc	电位器 1~3 端总阻值之公差。 Measurement shall be made by the resistance tolerance between terminal R1 and R3.	100Ω ~ 1MΩ ±20% 1MΩ ~ 2MΩ ±30%
4	额定功率 Rated power	电位器 1~3 端能连续承受之最大之功率 Rated power is based on continuous full load operation at the maximum voltage between terminal R1 and R3.	0.05W(50℃)
5	残留电阻 Residual resistance	电位器 1~2 端 (将轴心旋转至 1 端底部测) 及 2~3 端 (将轴心旋转至 3 底部测) 残留 Test residual resistance beteen terminal R1 and R2; terminal R2 and R3	R ≤ 10KΩ R <sub>0</sub> ≤ 20Ω 10KΩ < R ≤ 100KΩ R <sub>0</sub> ≤ 30Ω 100KΩ < R ≤ 250KΩ R <sub>0</sub> ≤ 50Ω R ≥ 250KΩ R <sub>0</sub> ≤ 0.1%
6	转动噪声 rotation of noise	轴心从电位器 1 端以 30 转/分匀速旋转至 3 端时电位器所呈现之杂音情况 The murmur will appear when shaft turn from terminal 1 to terminal 3 by 30 rounds/minute equably speed.	≤ 47mV
7	最高使用电压 Max operating voltage	电位器 R1-R3 端所承受的最大电压 Maximal voltage which sustained by terminal R1 and R3	50V AC / 20V DC
8	耐电压 Voltage proof	在电位器端子与外壳之间加以电压 1 分钟以上 input more then one minute voltage between terminals and shell.	300V AC
9	同步误差 Gang Error		≤ ± 3dB at -40 ~ 0dB

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### B。机械性能 Mechanical specifications

1	旋转角度 Total rotation angle	指轴置于 1 端最底部转往 3 端最底部之旋转角度 The angle is measured by rotating shaft from the end of terminal R1 to the end of terminal R3.	$300^{\circ}\pm 10^{\circ}$
2	回转力矩 Rotation torque	指轴在周围温度 $5^{\circ}\text{C}\sim 35^{\circ}\text{C}$ 以每秒钟 $60^{\circ}$ 匀速转动所需之力矩 Rotational torque when turn the shaft :without special provision,rotational speed is $60^{\circ}/\text{s}$ in ambient temperature $5\text{-}35^{\circ}\text{C}$	$10\sim 80\text{gf.cm}$
3	止档强度 Stop torque	轴从 1 端转至止档点或从 3 端转至止档点 10 秒后直至破坏之力量 The force that shaft transfer from terminal 1 to stop point or terminal 3 to stop point after 10 seconds until be break	$4\text{kgf.cm}$

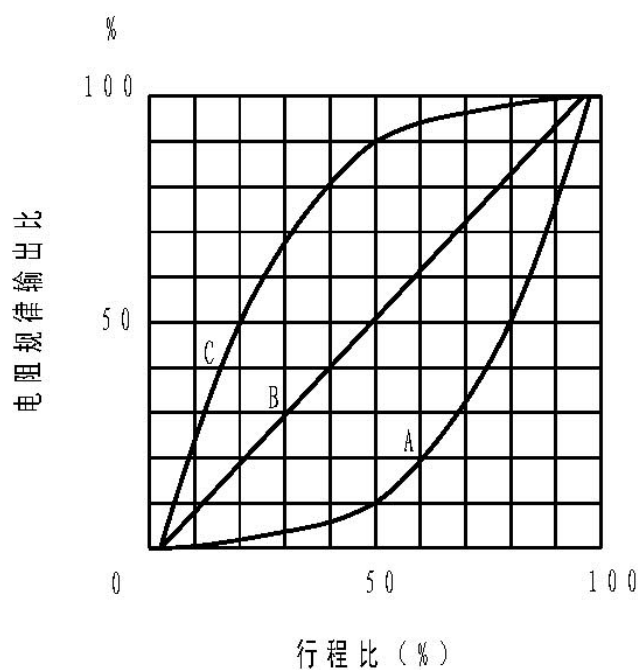
### C。其它 Other

1	使用寿命 Rotation life	经过 10, 000 旋转测试后, 总阻变化不超过 $\pm (15\%R+0.5\Omega)$ 转动噪声不大于 100mv After 10,000 rotation after the test, the changes impacted no more than $\pm (15\% R + 0.5 \Omega)$ rotational noise of not more than 100 mv	
2	端子强度 Terminal strength	经过焊接 ( $350^{\circ}\text{C}$ , 3,5 秒) 后端子不得有接触不良或松动现象 After welding ( $350^{\circ}\text{C}$ , 3,5 seconds) after the termination of terminal contacts should be good, no loosening of	
3	可焊性 Soldering ability	$260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ , 持续时间 $2\text{S}\pm 0.5\text{S}$ , 焊锡覆盖面积大于 90%以上。 Dip the terminals into tin tank at $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for $2\pm 0.5$ seconds, the soldering area should be more than 90%.	

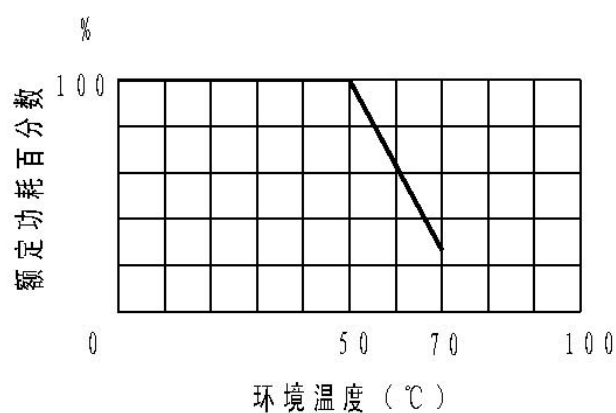
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### 电阻规律理论曲线图



### 功率温度表



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阻值简码表  
Resistance SR code table

阻值 Resistance	代码 Code
100 $\Omega$	101
500 $\Omega$	501
1K $\Omega$	102
2K $\Omega$	202
3.3K $\Omega$	332
4.7K $\Omega$	472
5K $\Omega$	502
10K $\Omega$	103
20K $\Omega$	203
22K $\Omega$	223
47K $\Omega$	473
50K $\Omega$	503
100K $\Omega$	104
200K $\Omega$	204
250K $\Omega$	254
500K $\Omega$	504
1M $\Omega$	105
2M $\Omega$	205