

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 terminals 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 tolerance	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.	1KΩ ~ 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.	0.1W(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 between terminal R1 and R2; terminal R2 and R3	R ≤ 10KΩ R ₀ ≤ 20Ω 10KΩ < R ≤ 100KΩ R ₀ ≤ 30Ω 100KΩ < R ≤ 250KΩ R ₀ ≤ 50Ω R ≥ 250KΩ R ₀ ≤ 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 DC
8	绝缘阻抗 Insulation resistance	测试电压: DC 500V 测试位置: 端子与外壳间 Test voltage: DC 500V, Test position: Between terminal and case	100MΩ
9	有效电阻角度 Electrical Rotation angle	电阻有效变化角度 Resistance effective changes in perspective	50° ± 10°
10	开关接触电阻 Switch Contact Resistance	指开关两触点接触后, 它们间所残留的电阻 After the contact of the two contacts of the switch between them residual resistance	≤ 0.5Ω

宁波宏韵电子有限公司

HUNGYUN ELECTRONICS(NINGBO) CO.,LTD

11	开关承受负载 Switch Power Rating	指开关两触点之间，所承受的负载 Switch between the two contacts, which are subject to load	12V DC 1A MAX
----	----------------------------------	--	----------------------

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°±10°
2	回转力矩 Rotation torque	指轴在周围温度 5°C~35°C 以每秒钟 60°匀速 转动所需之力矩 Rotational torque when turn the shaft :without special provision, rotational speed is 60°/s in ambient temperature 5-35°C	20~ 100gf.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	>5kgf.cm
4	开关工作角度 Switch Working Angle	指开关从止档初始位置到开启，轴 所旋转的角度 Switch from the initial position of the stopper to the on-axis The angle of rotation	40°±10°
5	开关力矩 Switch Torque	开关开启或关闭所产生的扭矩 Switch on or off the torque	150 ~ 400gf.cm

宁波宏韵电子有限公司

HUNGYUN ELECTRONICS(NINGBO) CO.,LTD

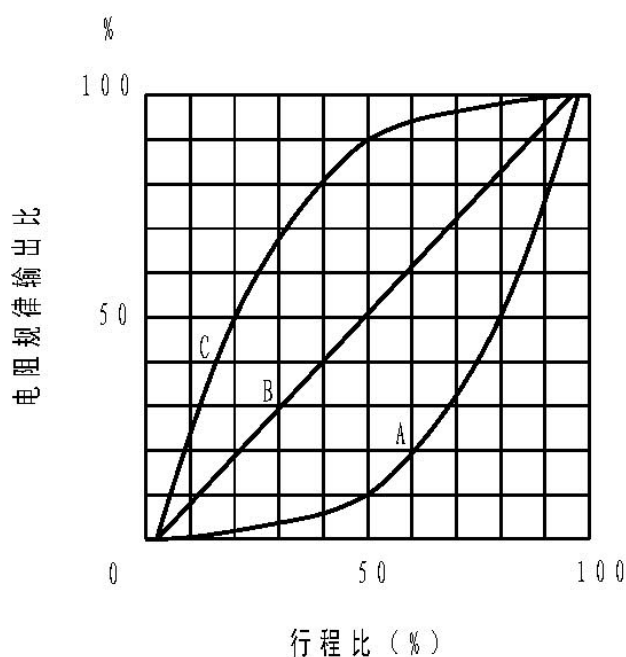
其它 Other

1	使用寿命 Rotation life	<p>经过 10, 000 旋转测试后, 总阻变化不超过± (15%R+0.5Ω)转动噪声不大于 100mv After 10,000 rotation after the test, the changes impacted no more than ± (15% R +0.5 Ω) rotational noise of not more than 100 mv</p>	
2	开关寿命 Switch life	<p>经过 3,000 旋转测试后, 开关性能均正常 After 3,000 rotations testing, switch function are normal.</p>	
3	端子强度 Terminal strength	<p>经过焊接 (350℃, 3,5 秒) 后端子不得有接触 不良或松动现象 After welding (350 °C, 3,5 seconds) after the termination of terminal contacts should be good, no loosening of</p>	
4	可焊性 Soldering ability	<p>260℃ ±5℃, 持续时间 2S ±0.5S, 焊锡覆盖面 积大于 90%以上。 Dip the terminals into tin tank at 260℃±5℃ for 2±0.5 seconds, the soldering area should be more than 90%.</p>	

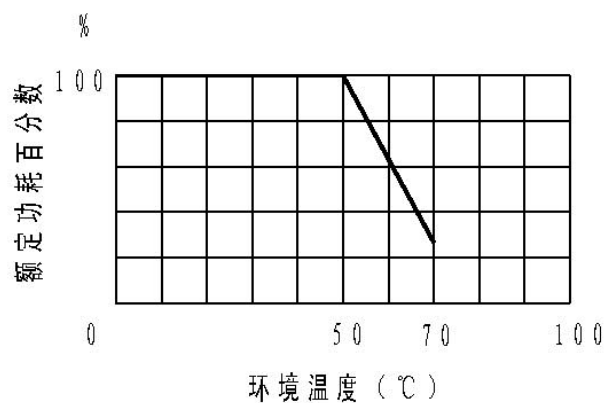
宁波宏韵电子有限公司

HUNGYUN ELECTRONICS(NINGBO) CO.,LTD

电阻规律理论曲线图



功率温度表



宁波宏韵电子有限公司

HUNGYUN ELECTRONICS(NINGBO) CO.,LTD

阻值简码表 Resistance SR code table

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