Ningbo Hongyun Electromechanical Technology Co., Ltd

宁波宏韵机电科技有限公司

通过 ISO 9001:2000 质量体系认证
通过 ISO 14001:2004 环境体系认证

旋转电位器
Rotary type potentiometer

ISO 9001:2000 CERTIFICATE
ISO 14001:2004 CERTIFICATE

规 格 书
SPECIFICATION

供客户承认

（FOR APPROVAL）

客户名称：
Customer's Name:

客户料号：
Customer'Part No:

产品名称： PT15N-V15-B472 电位器
Toproot Type Name:

送样编号：
Sample No:

客户确认回复：
Customer Approval Status :

签核：
Signature:

本规格书由以下内容组成
1、电气特性
2、机械特性
3、产品外形图

This Specification is composed of Under mentioned
1、Electrical characteristics
2、Mechanical Characteristics
3、Product External Dimensions

如蒙承认请签核后回复，谢谢！
Please counter-signed fax back to us signify your acceptance . Thanks!

批 准 Approved By		审 核 Reviewed By		承 办 Prepared By	

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 R1and R3.	4.7KΩ
2	阻值线性 Resistance taper	电阻值变化规律 Resistance changes	直线 B （line）
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.	±20%
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.	0.25W(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 andR2;terminal R2 andR3	R≤10K R_0≤50Ω 10K<R<100K R_0≤100Ω 100K≤$R_{总}$ R_0≤0.1%R
6	接触电阻 contact resistance variation	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接触电阻 The murmur will appear when shaft turn from terminal 1 to terminal 3 by 30 rounds/minute equably speed.	≤100mv
7	有效电阻角度 Electrical Rotation angle	电阻有效变化角度 Resistance effective changes in perspective	250°±20°
8	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

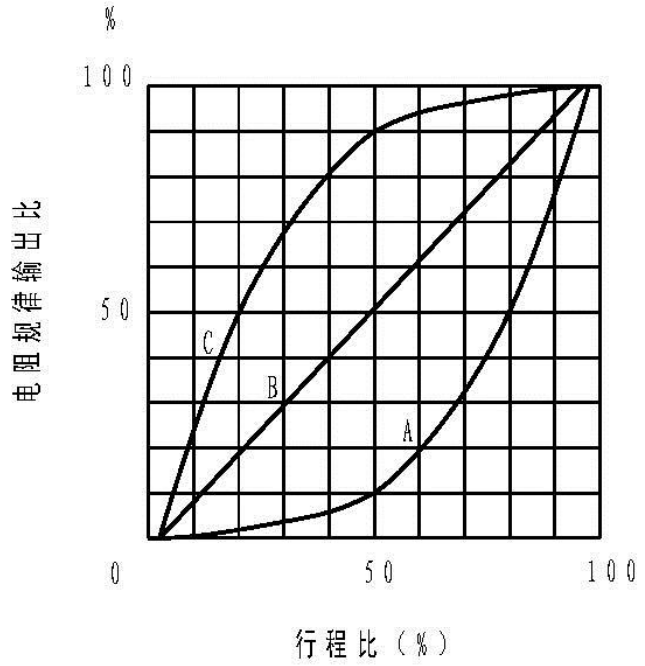
B。机械性能 Mechanical specifications

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.	265 °±5 °
2	回转力矩 Rotation torque	指轴在周围温度 5℃～35℃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℃	0.1-2.0Ncm
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	>10Ncm

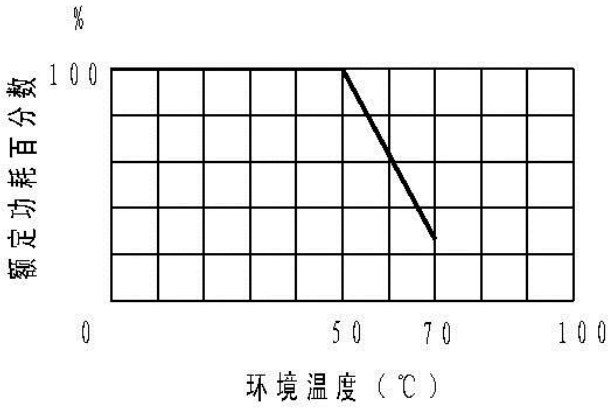
C。其它 Other

1	使用寿命 Rotation life	经过 10，000 旋转测试后，总阻变化不超过±（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	
2	端子强度 Terminal strength	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 ℃, 3,5 seconds) after the termination of terminal contacts should be good, no loosening of	
3	可焊性 Soldering ability	235℃ ±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 235℃ ±5℃ for 2±0.5 seconds, the soldering area should be more than 90%.	

电阻规律理论曲线图



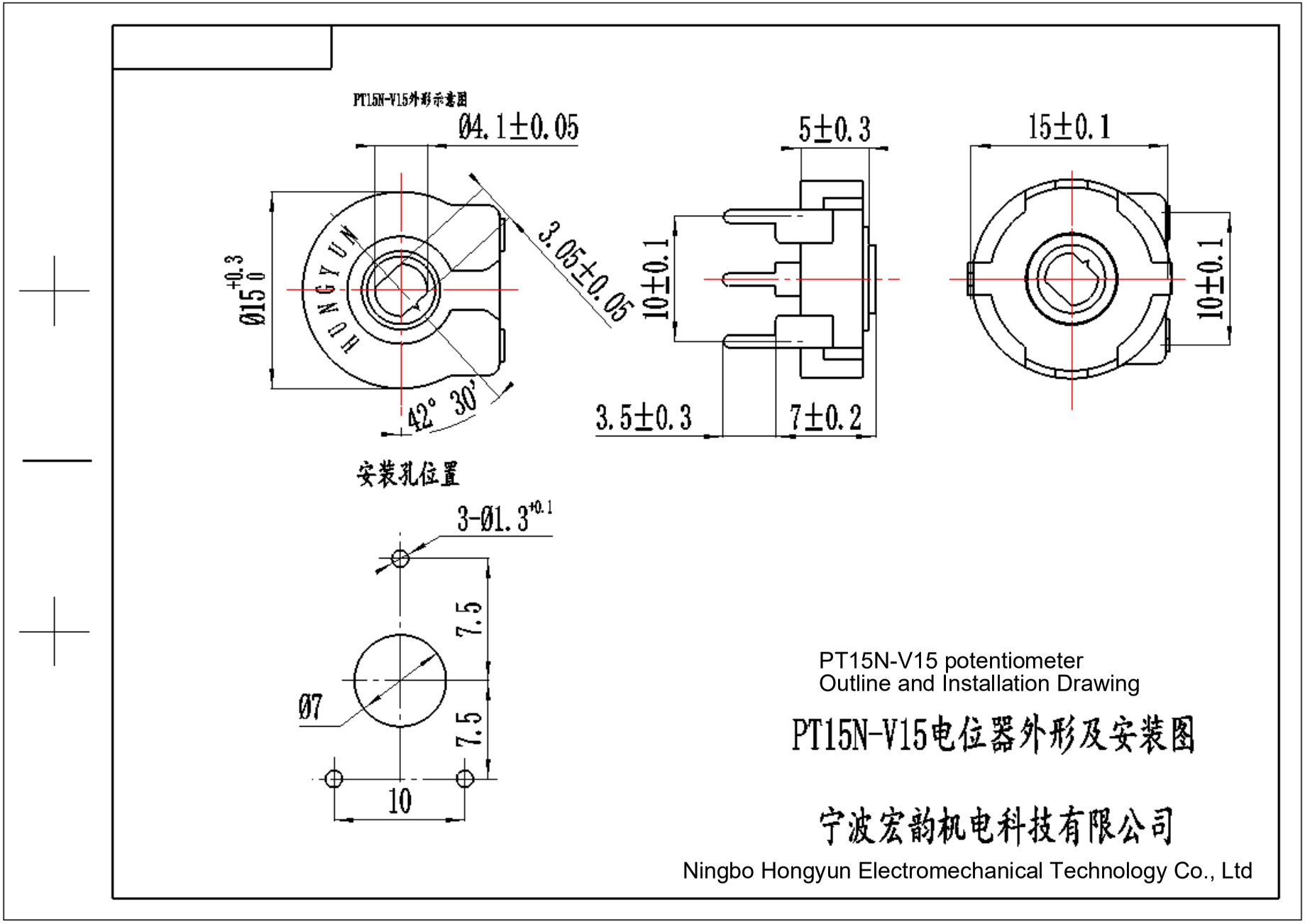
功率温度表



阻值简码表

Resistance SR code table

阻值 Resitance	代码 Code
100Ω	101
500Ω	501
1KΩ	102
2KΩ	202
3.3KΩ	332
4.7KΩ	472
5KΩ	502
10KΩ	103
20KΩ	203
22KΩ	223
47KΩ	473
50KΩ	503
100KΩ	104
200KΩ	204
250KΩ	254
500KΩ	504
1MΩ	105
2MΩ	205
2.2MΩ	225


PT15N-V15外形示意图
Ø4.1±0.05
3.05±0.05
Ø15 +0.3 0
HONGYUN
42° 30'
5±0.3
10±0.1
3.5±0.3
7±0.2
15±0.1
10±0.1
安装孔位置
3-Ø1.3 +0.1
7.5
7.5
Ø7
10
PT15N-V15 potentiometer
Outline and Installation Drawing
PT15N-V15电位器外形及安装图
宁波宏韵机电科技有限公司
Ningbo Hongyun Electromechanical Technology Co., Ltd