



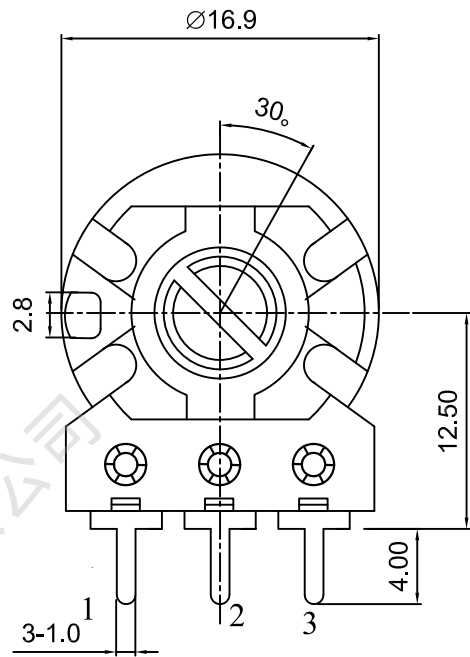
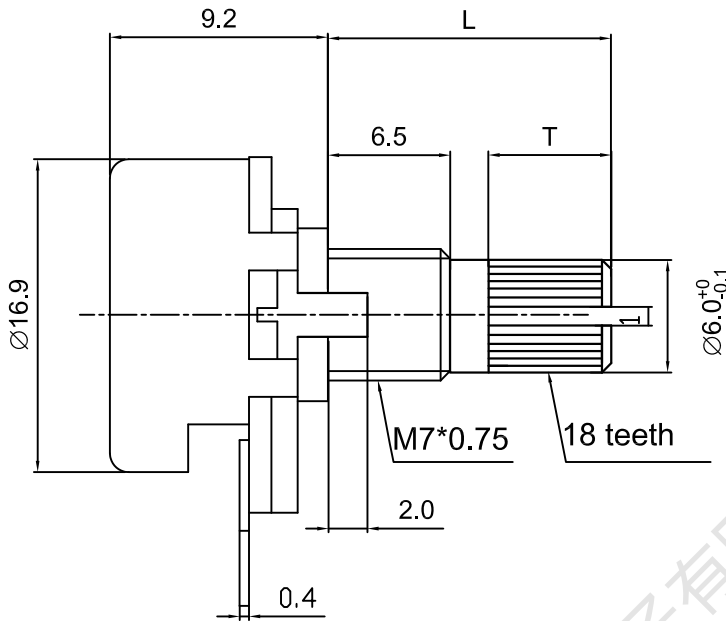
一、旋轉式電位器系列技術規格書

Rotary Series Potentiometers Technic Specifications

1. 電氣性能 (Electrical Characteristic)					
序号	項目			特性	
1.1	全阻抗值 (Total Resistance)			500Ω~2MΩ	
1.2	全阻抗值允許偏差 (Total Resistance Tolerance)			±10% ±20%	
1.3	電阻隨溫度變化特性 (Resistance of temperature change character)			20°C-75°C:ΔR/R≤±5%, -25°C-20°C:ΔR/R≤±4.5%	
1.4	阻值變化特性 (Resistance Taper)			A ,B ,C	
1.5	零位阻值 (Residual Resistance)			R≥250KΩ 0.1%max.of total resistance 250KΩ>R>10KΩ 20Ω 10KΩ≥R 10Ω max.	
1.6	額定功率 (Rated Power)			Curve B:0.2W Other than B:0.1W	
1.7	最高使用電壓 (Max.Operating Voltage)			AC 150V	
1.8	動雜音 (Rotational Noise)			Less Than 100mV	
1.9	絕緣阻抗 (Insulation Resistance)			More than 100MΩ at DC500V	
1.10	耐電壓 (WithStand Voltage)			1 minute at:500V AC	
1.11	同步誤差 (Gang Error)			/	
2. 機械性能 (Mechanical Characteristics)					
2.1	全回轉角度 (Rotation Angle)			300°±10°	
2.2	旋轉力矩 (Rotation Torque)			20 ~ 150gf.cm	
2.3	軸的拉、押強度 (Pull-Push Strength)			6Kgf	
2.4	轉動止檔強度 (Rotational Stop-End Torque)			5kgf.cm	
2.6	焊錫耐熱性 (Resistance To Soldering Heat)			260±5°C and less than 3 seconds	
2.7	定位點數目 (Number of Detents(click))			1C, 11C, 21C, 31C, 41C	
2.8	開關操作力 (Switch Action)			/	
3. 耐久性能 (Durability)					
3.1	使用溫度 (Operating Temperature)			-10°C ~ +70°C	
3.2	回轉壽命 (Rotation Life)			10,000Cycles	
4. 外形尺寸圖/曲線特性圖 (Shape size drawing/curve characteristic drawing)				見附頁 (Please see attachment)	
批 准		審 核		設 計	



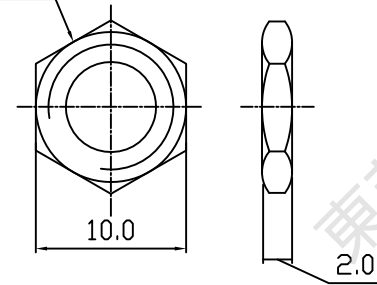
外形图 Mechanical Dimensions



Shaft shown in full
C.C.W. position

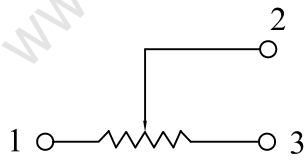
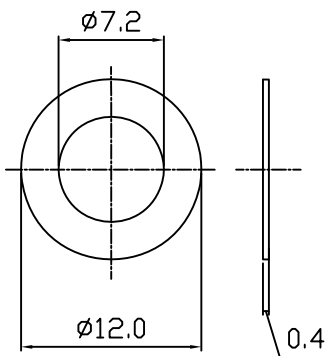
attached parts: nut&washer

M7*0.75

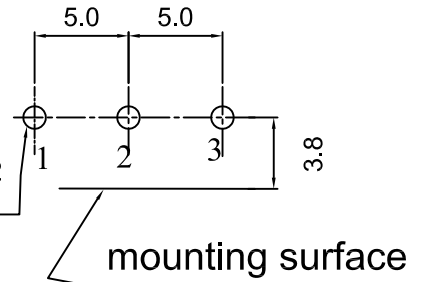


接线图 Circuit Explanation

安装孔位置图 Mounting Hole



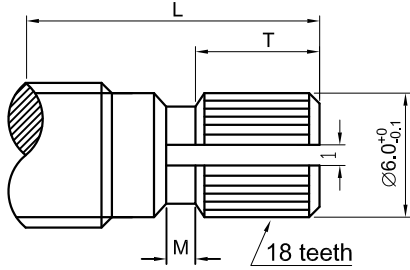
3-Ø1.2^{+0.2}₋₀



东莞市雅弧电子有限公司 DongGuan YaHu Electronic Co.,Ltd.				PRODUCT NAME		16mm Rotary Potentiometers	
2				MODEL NAME		RV1610N-□A1-Value	
1				APPROVED BY		CHECKED BY	
NO	DATE	DESCRIPTION		DRAWN BY			
DIMENSION		TOLERANCE	SCALE				
l ≤ 10		±0.2	UNIT	mm			
10 < l ≤ 30		±0.5	VER.				
30 < l ≤ 100		±1.0	DATE				



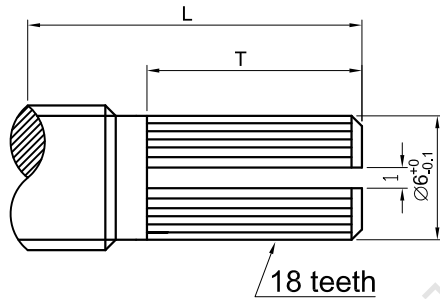
RV1610N/G SERIES SHAFT TYPE



车床轴

KQ TYPE:

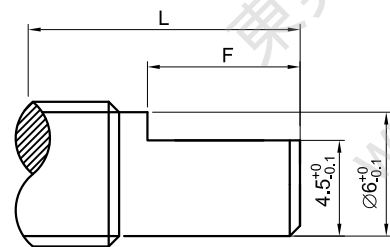
X	0	1	2	3	4	5	6	
L	10	12	15	17	20	25	30	
T	1.5	3.5	6.0	7.0	10	14	19	
M	0.5	0.5	1.0	1.5	2	2	2	



压铸轴

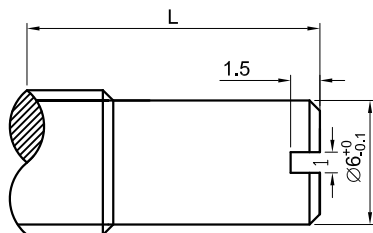
KQ TYPE:

X	0	1	2	3	4	5	6	
L	10	12	15	17	20	25	30	
T	1.5	3.5	6.5	8.5	11.5	14	19	



F TYPE:

X	A	C	D	E	G	
L	15	20	25	30	12	
F	7	12	12	12	3.5	



S TYPE:

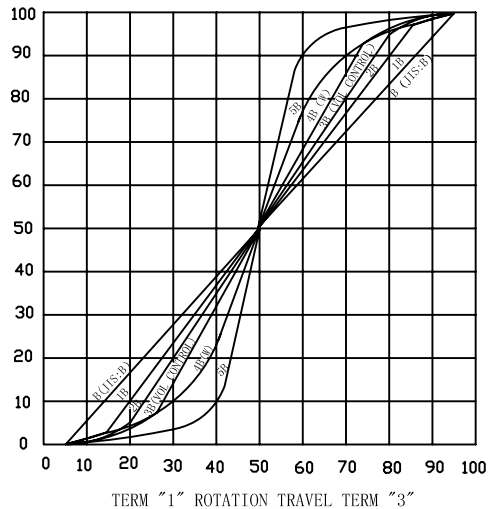
X	P	Q	R	S	T	
L	10	15	20	25	30	

RESISTANCE TAPER



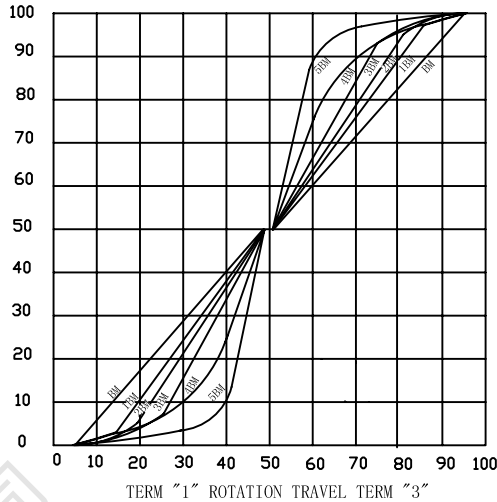
TAPER B SERIES

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$



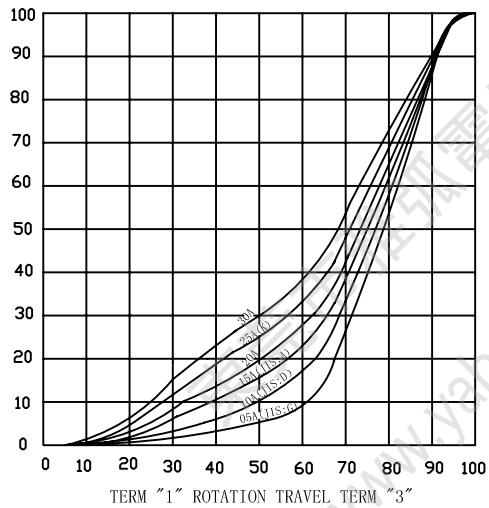
TAPER B WITH 50% TAP

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$



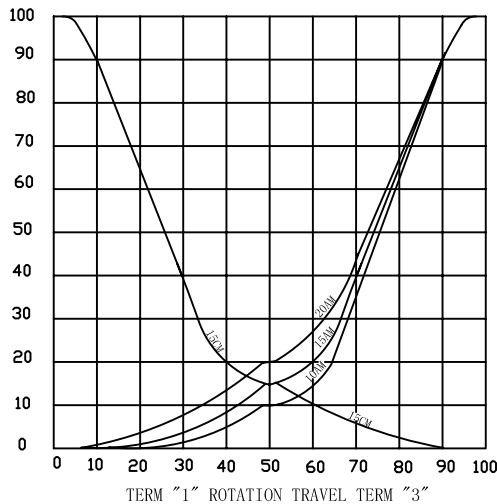
TAPER A SERIES

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$



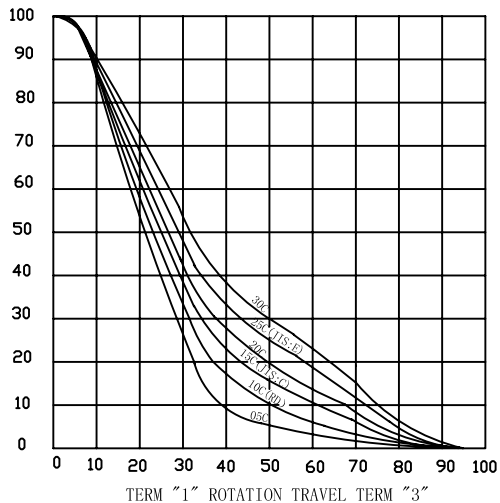
TAPER A & C WITH 50% TAP

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$



TAPER C SERIES

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$



TAPER M & N SERIES

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$

M

$$\frac{\text{OUTPUT VOLT.ACROSS TERMINAL 1,2}}{\text{INPUT VOLT.ACROSS TERMINAL 1,3}} \times 100\%$$

N

