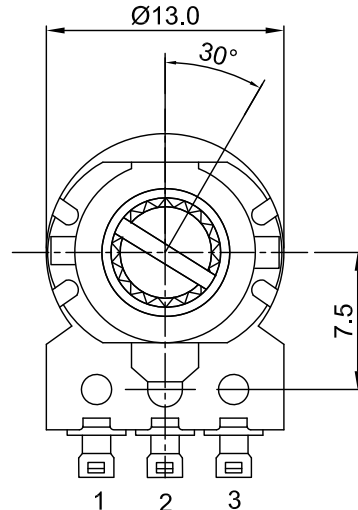
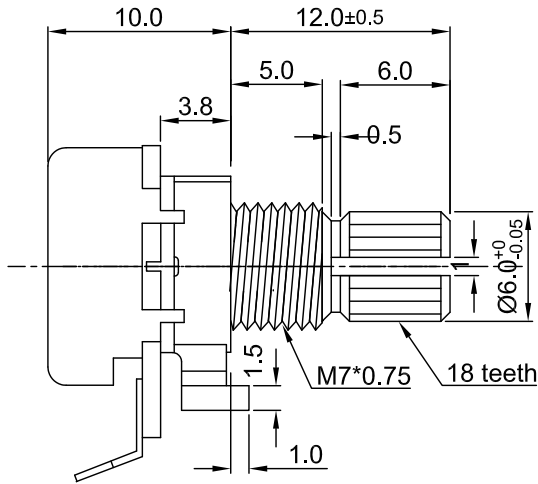
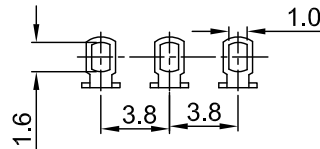


外形图 Mechanical Dimensions

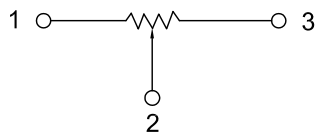


Shaft shown in full C.C.W. position

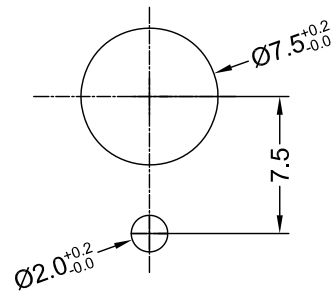
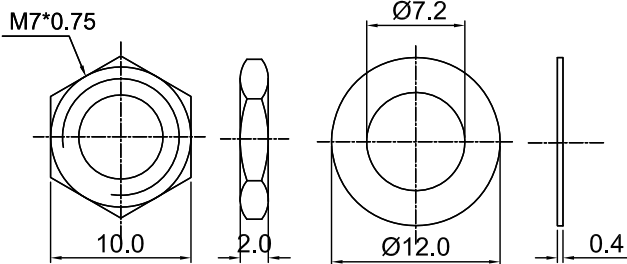


安装孔位置图
P.C.B. mounting hole detail

接线图
Circuit Explanation



Attached parts: nut & washer



3				PRODUCT NAME	Rotary Potentiometer	
2				MODEL NAME	R1210N-1B1-value-5	
1				APPROVED BY	CHECKED BY	DRAWN BY
NO	DATE	DESCRIPTION				
		DIMENSION	TOLERANCE	SCALE		
		$\int \leq 10$	± 0.2	UNIT		
		$10 < \int \leq 30$	± 0.5	VER.		
		$30 < \int \leq 100$	± 1.0	DATE	2014/12/2	
		All Angles	$\pm 5^\circ$			

R & D
2014/12/2
Eva

R & D
2014/12/2
Sophie

R & D
2014/12/2
Ball

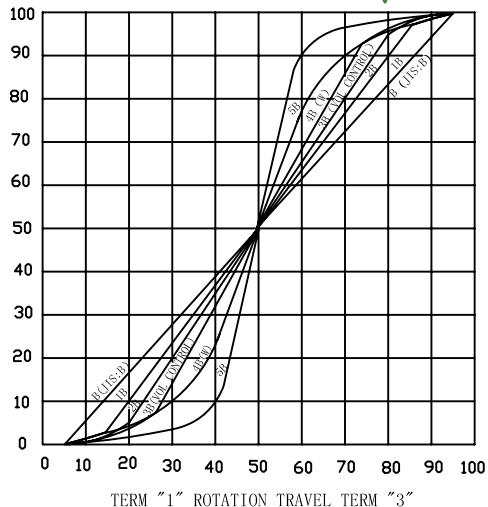
12 mm Rotary Potentiometers series Specifications

1.電氣性能 (Electrical Characteristic)					
1.1	全阻抗值 (Total Resistance)		20KΩ		
1.2	全阻抗值允許偏差 (Total Resistance Tolerance)		±20% (More than 1 M Ω ±30%)		
1.3	電阻隨溫度變化特性 Resistance of temperature change character)		20℃-75℃:△R/R≤±5%, -25℃-20℃:△R/R≤±4.5%		
1.4	阻值變化特性 (Resistance Taper)		B		
1.5	零位阻值 (Residual Resistance)		R>250KΩ / 0.1 % max. of total Value 250KΩ>R>10KΩ / 20Ω max. 10KΩ>R / 10Ω max.		
1.6	額定功率 (Rated Power)		Linear Taper B: 0.05W Other Taper:0.03W		
1.7	最高使用電壓 (Max.Operating Voltage)		50V AC		
1.8	動雜音 (Rotational Noise)		Less Than 100mV		
1.9	絕緣阻抗 (Insulation Resistance)		More than 100MΩ at DC 250V		
1.10	耐電壓 (Withstand Voltage)		For 1 minute at: AC 250V		
1.11	開關額定功率(Switch Rated Power)		-----		
1.12	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)		4 Kgf.cm		
2.4	轉動止檔強度 (Rotational Stop-End Torque)		3 kgf.cm Min		
2.5	開關角度(Switch Working Angel)		-----		
2.6	開關力矩(Switch Working Torque)		-----		
2.7	旋轉定位數目 (Number of Detents(click))		detent: 0 ;		
2.8	焊錫耐熱性 (Resistance To Soldering Heat)		260±5℃ and less than 3 seconds		
3.耐久性能 (Durability)					
3.1	回轉壽命 (Rotation Life)		10,000 Cycles min.		
3.2	工作溫度 (Operating temperature)		-10℃~+70℃		
4.1	外形尺寸圖/曲線特性圖 (Shape size drawing/curve characteristic drawing)		見附頁 Please refer the drawing		
批 准			審 核		
			設 計		

RESISTANCE TAPER

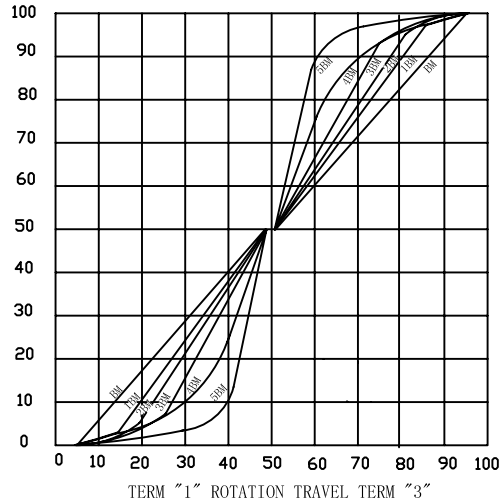
TAPER B SERIES ✓

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



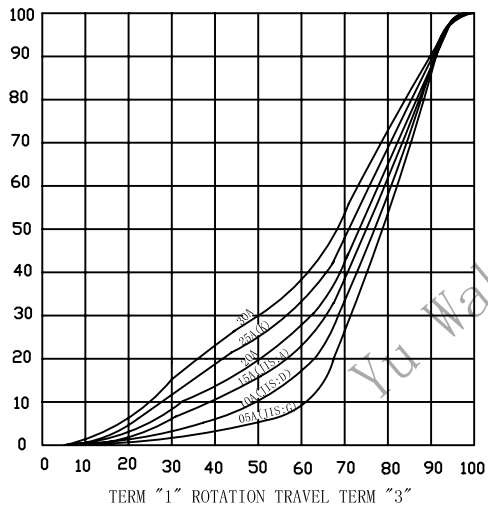
TAPER B WITH 50% TAP

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



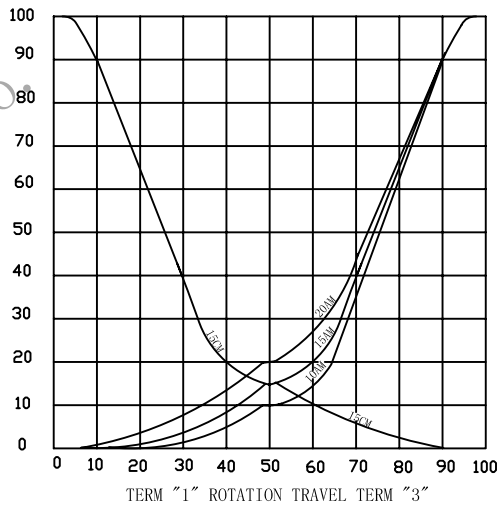
TAPER A SERIES

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



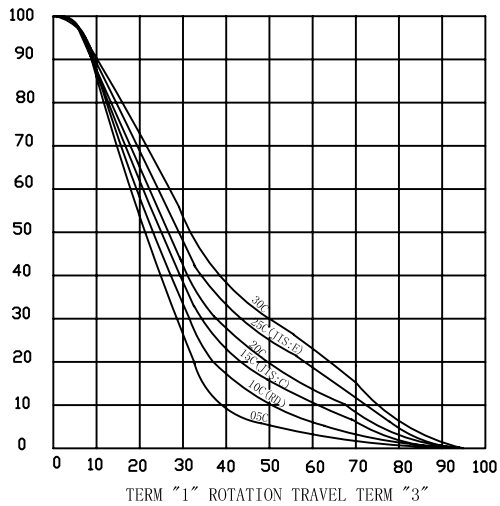
TAPER A & C WITH 50% TAP

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



TAPER C SERIES

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



TAPER M & N SERIES

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

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

