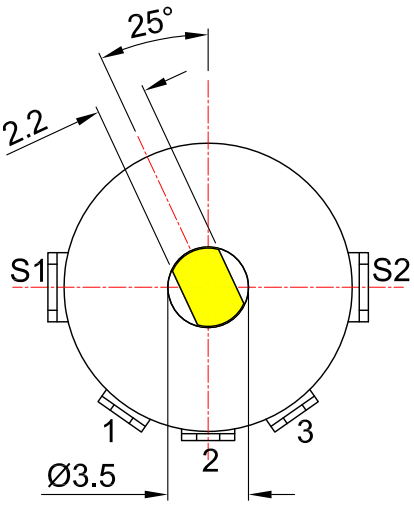
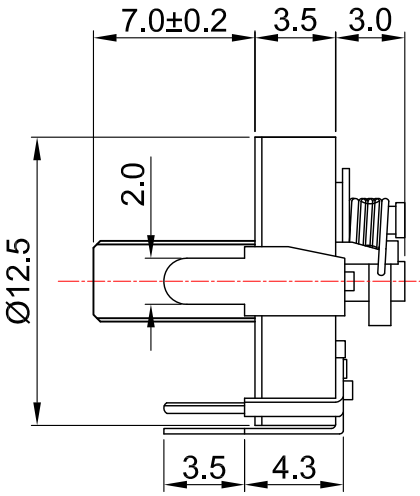
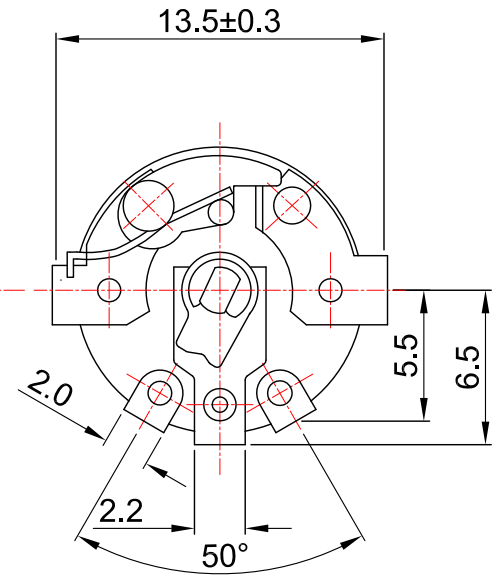
外 形 图
Mechanical Dimensions

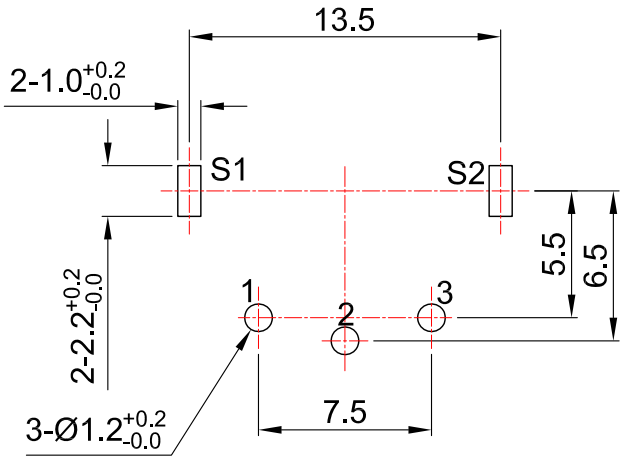




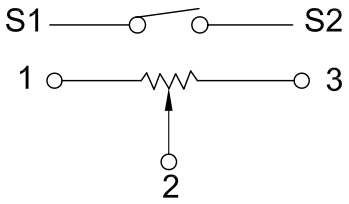


Shaft shown in full
C.C.W. position

安装孔位置图
P.C.B. mounting hole detail



接 线 图
Circuit explanation



3				PRODUCT NAME	Rotary Potentiometer	
2						
1				MODEL NAME	R127NS-7C1-Value-V76	
NO	DATE	DESCRIPTION				
DIMENSION		TOLERANCE	SCALE	APPROVED BY	CHECKED BY	DRAWN BY
∫ ≤10		± 0.2	UNIT mm	R & D 2014/03/06 Eva	R & D 2014/03/06 sophie	R & D 2014/03/06 Dick
10 < ∫ ≤ 30		± 0.5	VER. A0			
30 < ∫ ≤100		± 1.0	DATE 2013/05/30			
All Angles		± 5°				

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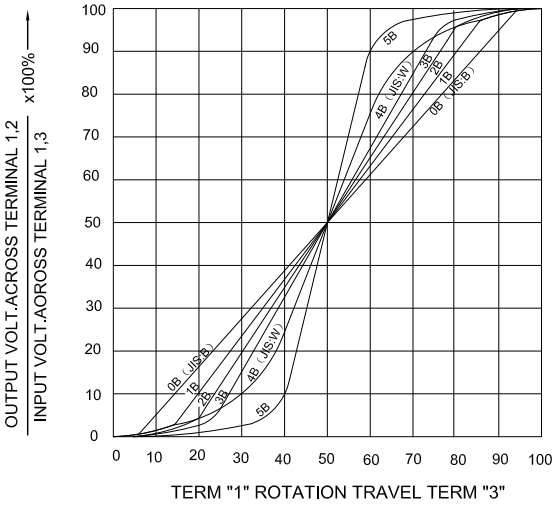
12 mm Rotary Potentiometers with SW series Specifications

1.電氣性能 (Electrical Characteristics)		
1.1	全阻抗值 （Total Resistance)	500Ω ~ 1MΩ
1.2	全阻抗值允许偏差（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)	A, B , C, D
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: 0.1W Other Taper:0.05W
1.7	最高使用電壓（Max.Operating Voltage)	150V AC
1.8	動雜音（Rotational Noise)	Less Than 100mV
1.9	絕缘阻抗（Insulation Resistance)	More than 50MΩ at DC 500V
1.10	耐電壓（Withstand Voltage)	For 1 minute at: AC 500V
1.11	开关额定功率(Switch Rated Power)	1A at AC/DC 12V
1.12	同步誤差（Gang Error)	----------
2.機械性能（Mechanical Characteristics)		
2.1	全回轉角度（Rotation Angle)	230°±10°
2.2	旋轉力矩（Rotation Torque)	20～150gf.cm
2.3	軸的拉、押強度（Pull-Push Strength)	1 Kgf.cm
2.4	轉動止檔強度（Rotational Stop-End Torque)	2 kgf.cm Min
2.5	开关角度(Switch Working Angel)	35°±10°
2.6	开关力矩(Switch Working Torque)	50～350gf.cm
2.7	旋轉定位數目（Number of Detents(click)	no detent
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	工作温度 (Operating temperature)	-10℃～+70℃
4.1	外形尺寸圖/曲線特性圖 (Shape size drawing/curve characteristic drawing)	见附页 Please refer the drawing

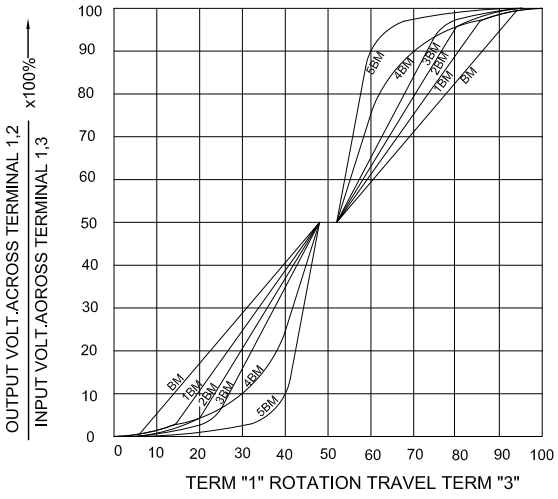
批准	R & D 2018/6/12 Eva	審核	R & D 2018/6/12 Sophie	設計	R & D 2018/6/12 Dick

RESISTANCE TAPER

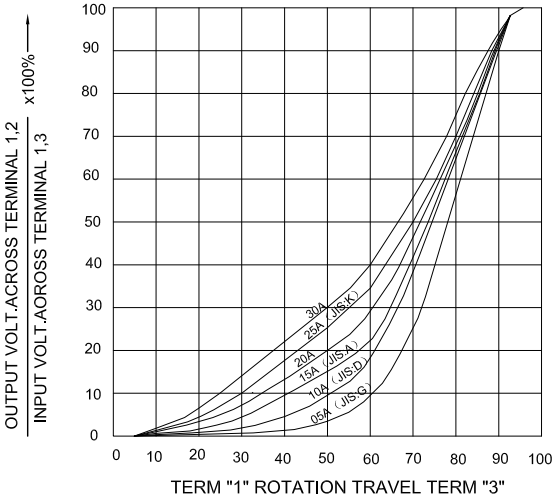
TAPER B SERIES



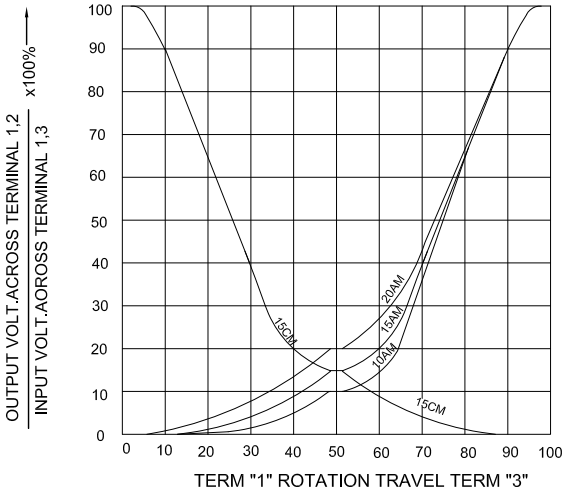
TAPER B WITH 50% TAP



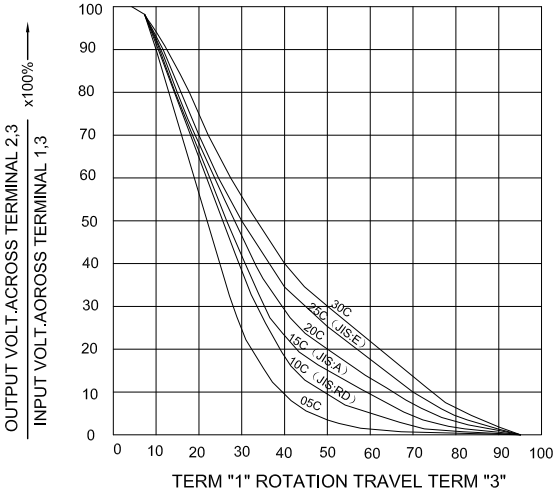
TAPER A SERIES



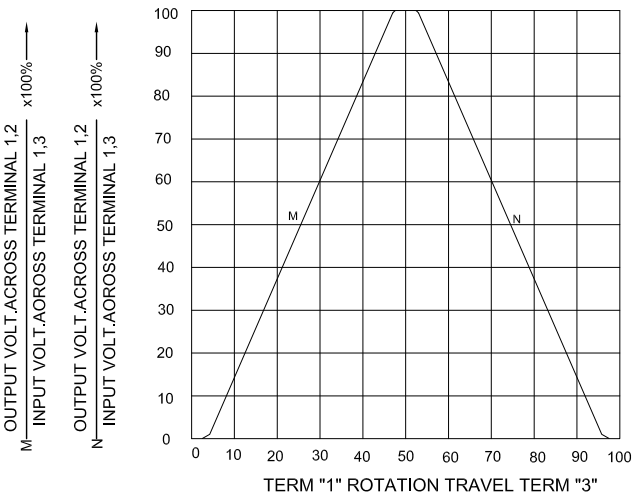
TAPER A & C WITH 50% TAP



TAPER C SERIES



TAPER M & N SERIES



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