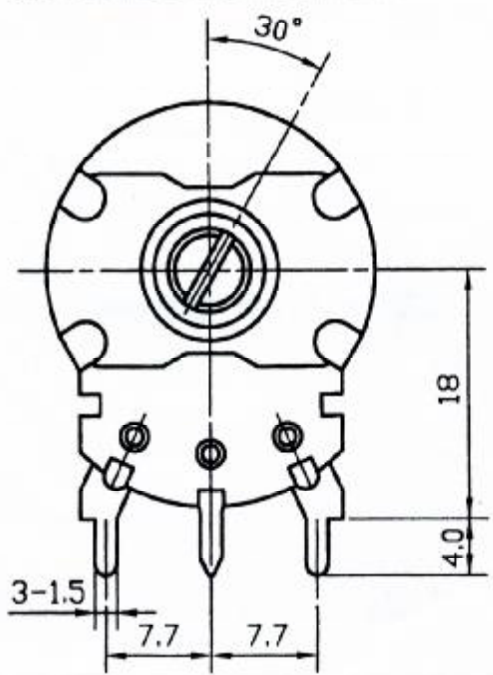
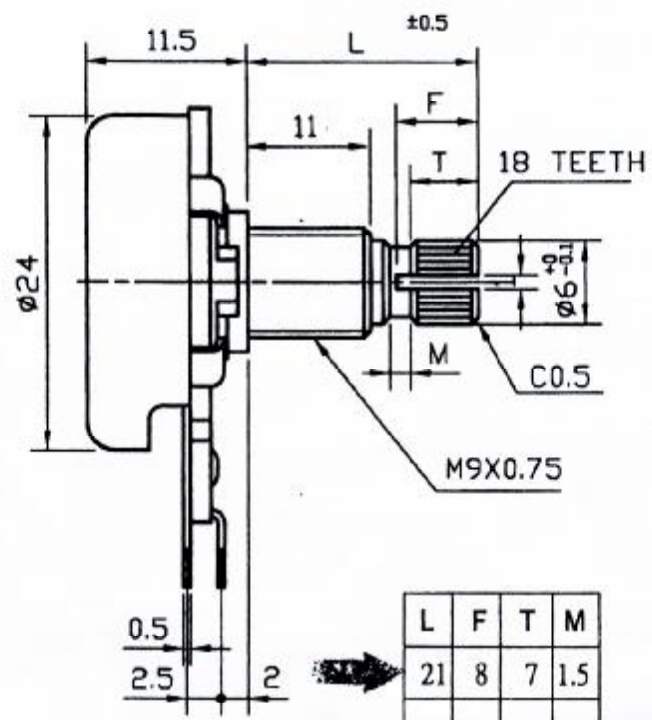


SHAFT SHOWN IN FULL C.C.W. POSITION

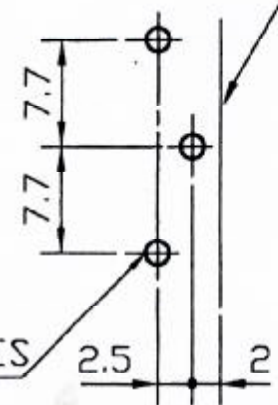
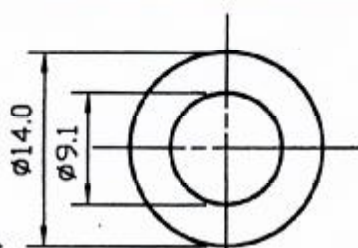
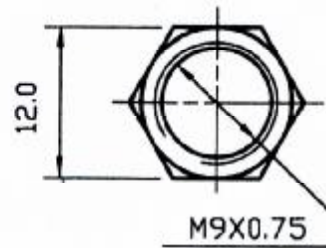


L	F	T	M
21	8	7	1.5

MOUNTING SURFACE

NUT

WASHER t=0.4



P.C.B. MOUNTING DETAIL

(VIEWED FROM MOUNTING SIDE)

No.	DATE	DESCRIPTION	PART No.	NAME
TOL. UNLESS OTHERWISE STATED	DIMENSION	SCALE	DRAWN BY	CHECKED BY
less than 10 ±0.3	mm	2:1	李	黃
above 10~30 ±0.5			2008.11.11	2008.11.11
above 30~100 ±1.0			延玲	折登
above ±5				
			APPROVED BY	DRAWING No.
			劉	
			2008.11.11	
			章良	

CUSTOMER'S NAME		NOTE		DATE
CUSTOMER'S PART NAME				
CUSTOMER'S DRAWING NO.				

**1. MECHANICAL SPECIFICATION**

1. OUTSIDE DIMENSION	append fig.		
2. TOTAL ROTATION ANGLE	degree	300	+5'
3. TOTAL TRAVEL STROKE	mm		±0.5
4. NUT WIRING STRENGTH	twisting moment	less than	9 kg.cm
5. SCREW TIGHTENING FORCE	torsional moment	less than	kg.cm
6. ROTATION TORQUE	speed 60 deg/sec.	20-200	g.cm
7. SLIDING FORCE	speed 20mm/sec		g.cm
8. SHAFT LEVER STRENGTH	pulling pushing	more than	kg
9. SHAFT LEVER WOBBLE	within	mm (bending moment	g.cm)
10. SHAFT LEVER STOP STRENGTH	more than	6 kg.cm (static load) /	60 sec
11. TERMINAL STRENGTH	more than	500 g.cm / 10 ± 1 sec	
	soldering heat 350±5°C/3sec. 200g.cm/10 ±1sec		
12. CLICK POSITION & TORQUE	resist change within ± 2%		
		g.cm	
13. SWITCH WORKING ANGLE (STROKE)	degree (mm)		
14. SWITCH WORKING TORQUE (FORCE)	g.cm		
15. SWITCH CIRCUIT			

**SHAFT**

MATERIAL	ANGLE OF FLAT OR SLOT	DIMENSION			
	$\theta$	M	L	F	T
	at		21		

MODEL NAME	DRAWING NO.

**2. ELECTRICAL SPECIFICATION**

1. OVERALL RESISTANCE & TOLERANCE	terminal 1-3	1M	$\Omega \pm 30$	%
2. TAP RESISTANCE & TOLERANCE	terminal 1-4		$\Omega \pm$	%
3. RATED WATTAGE	temp 0-50°C	0.25		W
4. MAXIMUM WORKING VOLTAGE		250		V
5. RESISTANCE TAPER MEASURING POINT & TOLERANCE			50	%point
6. RESIDUAL RESISTANCE	terminal 1/3 side		10	~ 25 %
7. TAP RESIDUAL RESISTANCE	terminal 4 side			less than 30/50 $\Omega$
8. SLIDE NOISE	speed 60° / 1 sec			less than 47 mV
9. INSULATION RESISTANCE	more than	100 M $\Omega$ (DC	500	V)
10. WITHSTAND VOLTAGE	AC	500	V	1 minute
11. TRACKING ERROR				
12. SWITCH CONTACT RESISTANCE	M $\Omega$			less than m $\Omega$
13. SWITCH RATING				

**3. USABLE TEMPERATURE RANGE: from -10°C to 70°C**

**4. VRLIFE 15,000 ± TIMES**  
 RESISTANCE CHANGE: within ± %  
 SLIDE NOISE : less than mV  
 CONTACT RESISTANCE: less than m $\Omega$

REFERENCE NO.	REV

## 可變電阻無鉛焊錫共通規格書

### Common Specification of Lead-Free Soldering for Potentiometers

以下焊錫條件以可變電阻置於單層 1.6mm 厚度之印刷電路板上測試為基準。

The specification below is based on testing results of 1.6mm thickness single layer printed circuit board.

#### 1. 手工焊錫條件：

**For Manual Soldering：**

1-1 操作溫度最高 350°C，操作時間 3 秒以內。

To be performed within 3 seconds at 350°C or below.

#### 2. 自動或半自動機台焊錫條件：

**For Automated or Semi-Automated Soldering Equipments:**

2-1 使用發泡式且比重 0.82 以上的助焊劑，發泡高度以印刷電路板厚度一半為標準，且助劑不能流入可變電阻基板表面及印刷電路板表面。

Flux of 0.82 specific gravity, applied by foam fluxer, shall be used. Foam head shall be limited to the height which is half thickness of printed circuit board to be soldered. No flux should be allowed to run up onto resistive element board of potentiometer and the surface of printed circuit board.

2-2 預熱時間不超過兩分鐘，焊錫界面（即印刷電路板底）最高預熱溫度不超過 100°C。

Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C.

2-3 焊錫過程機台設定溫度在 260°C 以下、4 秒以內。

Solder Dipping is to be performed within 4 seconds at 260°C or below.

#### 3. 若回轉型電位器是塑膠軸且帶有檔位，請將主軸先調整至其中一個檔位或中心檔位上才可以進行焊錫作業。

For rotary potentiometer with plastic shaft which have centre detent or multiple detents, the shaft should be settled in relevant detent position prior to soldering process.

#### 4. 手工焊錫、自動或半自動機台焊錫不得超過一回。

Regardless of soldering facility and method, solder dipping or solder smearing must not be carried out more than 1 time.

註：本項焊錫溫度條件不適用於回流焊接作業設備。

Remarks: This specification is not recommended for and applicable in reflow soldering.

焊錫注意事項：

**Caution for soldering:**

如圖所示，請避免 PCB 上層表面有焊錫

Please avoid soldering on upper surface of

P.C.B. as shown.

