

CUSTOMER'S NAME

Syntaxis. Tomasz Obrębski

ALPHA REFERENCE NO.

SP20070006

SPECIFICATION




PART NO.	ALPHA MODEL NAME
	SR1712F-0106-15K0A-B9-N

MODEL NAME

MODEL NO.

APPROVAL

T. Obrębski

PREPARED BY	REVIEWED BY	APPROVED BY
		



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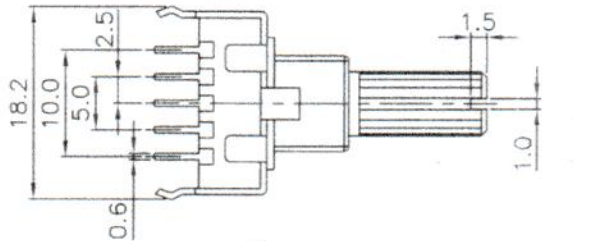
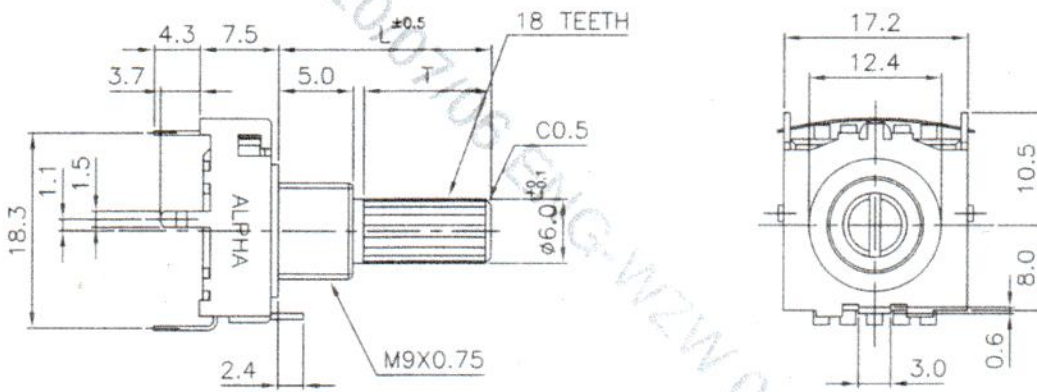
ROTARY SWITCH

MODEL

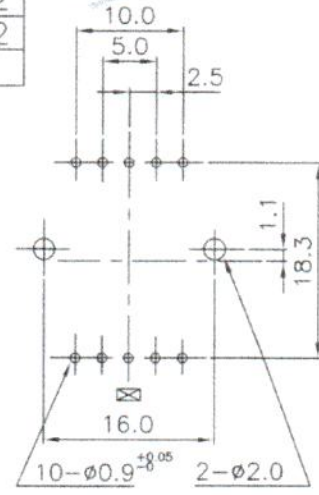
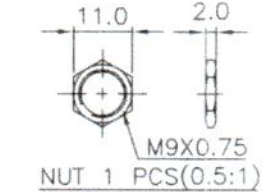
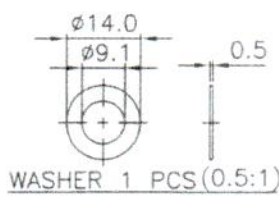
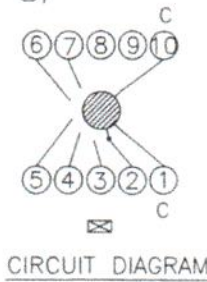
SR1712F-0106-(L)K0A-B9-N

SPECIFICATIONS

Rating	DC16V 0.3A
Contact Resistance	50 mΩ Max.
Insulation Resistance	DC100V-100 MΩ Min.
Withstand Voltage	AC100V-1 Minute
Rotation Torque	200±100 gf-cm
Life cycle	10,000 Cycles
Sizes (m.m.)	As Following Drawings



✓	L	T
	15	7
	20	12
	25	12



TOL. UNLESS OTHERWISE STATED

less than 10	±0.3
above 10~30	±0.5
above 30~100	±1.0
above	±5'

Date	2020.07.06	DWN		CHKD		APP'D	
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File



ALPHA

Specification
Rotary switch
SR1712F-XXX

DOC. No: Rev. C

Date:


Author: 何建志

Approved: 劉章良

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		Date: _____
		Author: 何建志
		Approved: 劉韋良

1. TEST CONDITIONS

Standard test conditions shall be 5-35°C in temperature and 45-85% RH in humidity.
 Should any doubt arise in judgment test shall be conducted at 20±2°C and 65±5% RH.


2. OUTSIDE DIMENSION

Append drawing.

3. MECHANICAL PERFORMANCE

Item	Test Condition	Specification
3.1 Operating force	Operation temperature:-10°C ~ +70°C Storage temperature:-40°C ~ +85°C	200±100gf-cm
3.2 Control strength	A static load of 1000gf-cm shall be applied in the operating direction and tensile direction of the unit for one minute.	N/A
3.3 Terminal strength	A static load of 500gf-cm shall be applied to the tip of the terminal in a desired direction for one minute. The number of tests shall be one per terminal.	N/A
3.4 Control wobble	Shall be measured by applying a static load of 100gf-cm to the tip of control unit.	Less than 1 mm
3.5 Soldering	Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C. Temperature of solder 260±5°C Duration of dipping 4±0.5 seconds	More than 90% of the dipped part shall be covered by solder

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3.6 Soldering heat resistance	Flow soldering condition: to be performed in 4 ± 0.5 seconds within $260\pm 5^{\circ}\text{C}$ Manual soldering condition: to be performed in 3 ± 0.5 seconds Max within $350\pm 5^{\circ}\text{C}$	No abnormalities shall be observed in appearance and operation shall be assured.
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3.7 Position of click	$30\pm 5^{\circ}$
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3.8 Bushing mount strength	8kgf-cm Min
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4. ELECTRICAL PERFORMANCE

Item	Test Condition	Requirement
4.1 Rating	N/A	DC16V 0.3A
4.2 Contact resistance	Shall be measured at $1\text{KHz}\pm 200\text{Hz}$ (Max 20mV, Max 50mA) or 5V DC, 1A by a voltage drop method	Less than $50\text{m}\Omega$
4.3 Insulation resistance	Shall be measured by applying 100V DC, between all terminals and between the terminal and the frame for 1 minute \pm 5 seconds	More than $100\text{M}\Omega$
4.4 Withstand voltage	100V AC (50~60Hz, 2mA) Shall be applied between all terminals and between the terminal and frame for one minute	No function damage or breakdown





ALPHA

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5. DURABILITY

5.1 Operating life under no load

10,000 cycles of operation shall be performed continuously at a rate of 15-20 cycles per minute without load. After operating life test, shall be in accordance with the following specifications.

Contact resistance:
less than 80mΩ
Insulation resistance:
more than 10MΩ
Withstand Voltage:
100V AC per one minute
Operating force:
200 ± 100gf-cm

5.2 Operating life under load

10,000 cycles of operation shall be performed continuously at a rate of 15-20 cycles per minute with resistive load of 16V DC, 0.3A. After operating life test, shall be in accordance with the following specifications.

Contact resistance :
less than 150mΩ

Other specifications are the same as operating life under no load.

6. NOTE

Terminals top side is covered by flux resist resin.

F.O.