CUSTOMER'S NAME

Syntaxis. Tomasz Obrębski

ALPHA REFERENCE NO.
SP20070007

SPECIFICATION

PART NO.	ALPHA MODEL NAME
	SR1712F-0108-15K0A-B9-N

MODEL NAME
MODEL NO.

APPROVAL
T. Obon

PREPARED BY	REVIEWED BY	APPROVED BY
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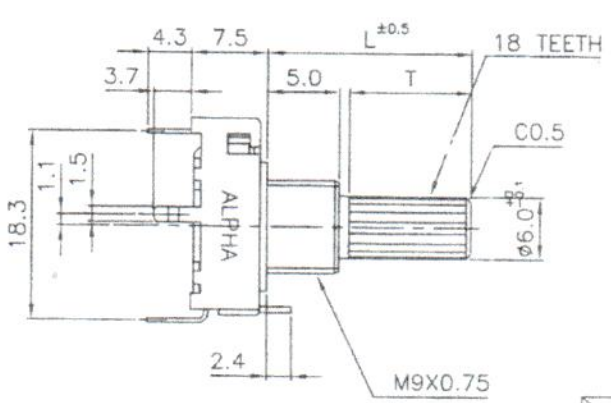
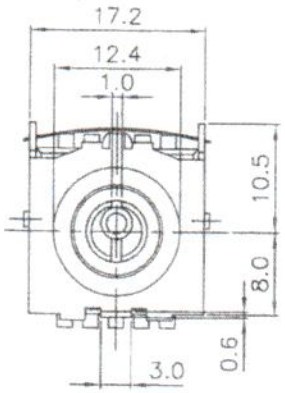
ROTARY SWITCH

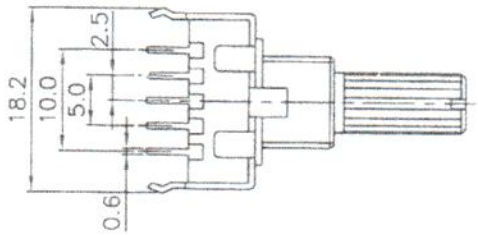
MODEL	SR1712F-0108-(L)K0A-B9-N

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







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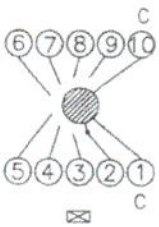
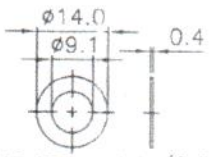
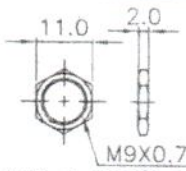


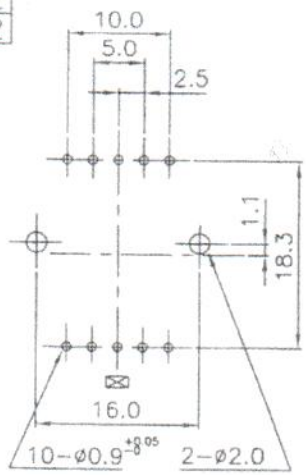
CIRCUIT DIAGRAM



WASHER 1 PCS(0.5:1)



NUT 1 PCS(0.5:1)



(⊠ STOPPER)
P.C.B. MOUNTING HOLE DETAIL

TOL.UNLESS OTHERWISE STATED		
less than	10	±0.3
above	10~30	±0.5
above	30~100	±1.0
above		±5'

Date	2018.10.23	DWN		CHKD		APP'D	

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ALPHA	**Specification** Rotary switch SR1712F-XXX	DOC. No: Rev. C Date: Author: 何建志 Approved: 劉韋良

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1. TEST CONDITIONS

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

2. OUTSIDE DIMENSION

Append drawing.

3. MECHANICAL PERFORMANCE

Item	Test Condition	Specification
3.1 Operating force	Operation temperature:-10℃ ~ +70℃ Storage temperature:-40℃ ~ +85℃	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℃. Temperature of solder 260±5℃ 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±5℃ Manual soldering condition: to be performed in 3±0.5 seconds Max within 350±5℃	No abnormalities shall be observed in appearance and operation shall be assured.
3.7 Position of click	30±5°	
3.8 Bushing mount strength	8kgf-cm Min	

4. ELECTRICAL PERFORMANCE

Item	Test Condition	Requirement
4.1 Rating	N/A	DC16V 0.3A
4.2 Contact resistance	Shall be measured at 1KHz±200Hz (Max 20mV, Max 50mA) or 5V DC, 1A by a voltage drop method	Less than 50mΩ
4.3 Insulation resistance	Shall be measured by applying 100V DC, between all terminals and between the terminal and the frame for 1 minute ± 5 seconds	More than 100MΩ
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

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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.

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