

CUSTOMER'S NAME

MOUSER ELECTRONICS

ALPHA REFERENCE NO.

SP07110385

## SPECIFICATION

PART NO.	ALPHA MODEL NAME
1.	SR2511F-0205-32K0A-S8-N-W-186

MODEL NAME

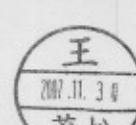
MODEL NO.

APPROVAL

PREPARED BY

REVIEWED BY

APPROVED BY



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# ROTARY SWITCH

MODEL

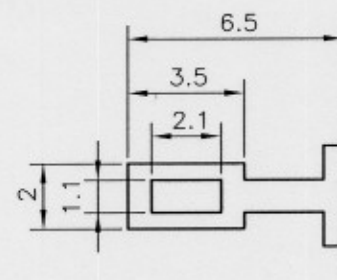
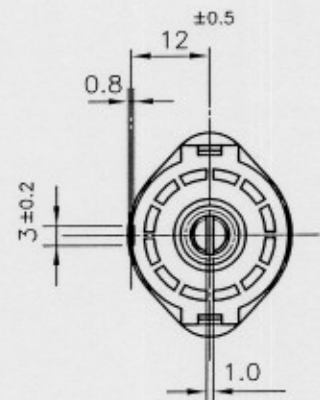
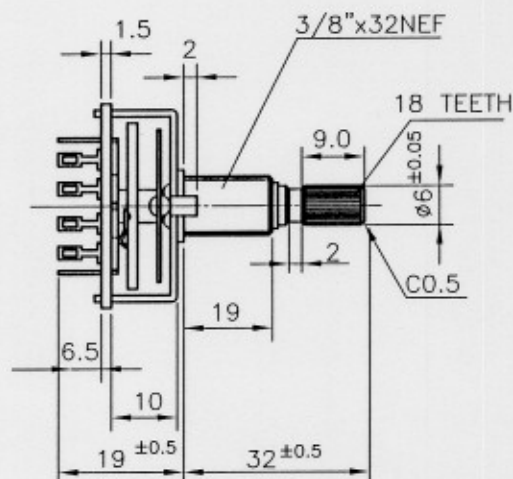
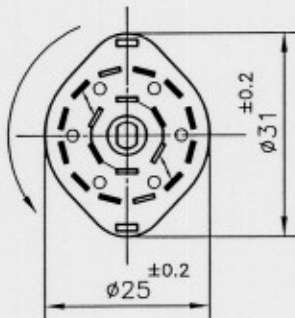
SR2511F-0205-32K0A-S8-N-W-186

## SPECIFICATIONS

Rating	AC125V 0.3A
Contact Resistance	50 mΩ Max.
Insulation Resistance	DC500V-100 MΩ Min.
Withstand Voltage	AC500V-1 Minute
Rotation Torque	1.0±0.5 Kg-cm
Sizes (m.m)	As Following Drawings



DIRECTION OF ROTATION



DETAIL OF TERMINAL(5/1)

- NOTE: 1. TOLERANCES UNLESS OTHERWISE SPECIFIED:  $\pm 0.4\text{mm}$   
 2. ACCESSORY PARTS: 3/8" HEXAGON NUT ONE PIECE & WASHER ONE PIECES  
 3. TIMING: NON-SHORTING  
 4. BRASS MATERIAL OF SHAFT AND BUSHING

Date

2007.11.30

DWN




CHKD



APP'D




TAIWAN ALPHA ELECTRONIC CO., LTD.

	<b>Specification</b> Rotary switch SR25XX	DOC. No:                      Rev. A
		Date:
		Author: 何建志
		Approved: 王茂松

## CONTENTS 内容

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	<b>Specification</b> Rotary switch SR25XX	DOC. No:                      Rev. A
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## 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	1.0±0.5kgf-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 1000gf-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	Temperature of solder 230±5°C Duration of dipping 3±0.5 seconds	More than 90% of the dipped part shall be covered by solder
3.6 Soldering heat resistance	Flow soldering condition: to be performed in 3±0.5 seconds within 230±5°C Manual soldering condition: to be performed in 3±0.5 seconds Max within 300±5°C	No abnormalities shall be observed in appearance and operation shall be assured.


	<b>Specification</b> Rotary switch SR25XX	DOC. No:                      Rev. A
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#### 4. ELECTRICAL PERFORMANCE

Item	Test Condition	Requirement
4.1 Rating	N/A	AC125V 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 500V DC, between all terminals and between the terminal and the frame for 1 minute ± 5 seconds	More than 100MΩ
4.4 Withstand voltage	500V AC (50~60Hz, 2mA) Shall be applied between all terminals and between the terminal and frame for one minute	N/A

#### 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 200mΩ Insulation resistance: more than 50MΩ Withstand Voltage: 250V AC per one minute Operating force: less than +10%,-30% for initial operating force
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 AC125V 0.3A After operating life test , shall be in accordance with the following specifications.	Contact resistance : less than 500mΩ  Other specifications are the same as operating life under no load.

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## 6. NOTE

Terminals top side is covered by flux resist resin.

# Mouser Electronics

Authorized Distributor

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