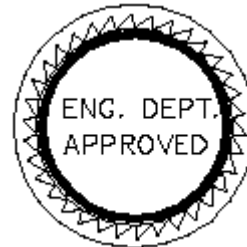


OUTLINE OF CHANGES ON THE DOCUMENT				
Version	Description	Page of modification	Issue by	Issue date
A	First released	1 - 2	Amy	2002.08.29

SPECIFICATION FOR MICRO SWITCH

ATTENTION	
<p><i>Customer shall acknowledge the datasheet by returning "this cover page with authorized signature" before placing order. Lack of acknowledgement or additional response constitutes acceptance of the herein contents.</i></p> <p>下單前請將此份"規格書封面簽回",未簽回則視為承認本規格書內容.</p>	
Approved By	Entered Date



CUSTOMER: _____
PART NO.: _____
TAIWAY P/N: DM-SM-07-M2
DATE OF ISSUE: 2012 May. 04
ISSUE BY: Alex Su
APPROVED BY: Amy Yen

TAIWAY ELECTRONICS COMPONENTS CO., LTD.

DM-SM-07-M2 SERIES SPECIFICATION

File No.:
DM-SM-07-M2

Rev.: A

Page: 2 pages

General

The specification describes SM-07-M2 micro switch which is of compact size and light weight. The switch is suitable in the applications such as telephone, computer & office instrument and communication

ELECTRICAL & MECHANICAL CHARACTERISTICS	CONTACT RATING:	On switching rating 125/250VAC 3A
	ELECTRICAL LIFE:	Life test shall be made under the condition of 125/250VAC 3A at a rate of 10 cycles/min for 10,000 cycles.
	CONTACT RESISTANCE:	To be measured under DC5V 0.1A current between terminals. Max. 100m-ohms
	INSULATION RESISTANCE:	To be measured with an insulation measuring device of 500VDC between all the terminals and between the terminals and the frame for 1 minute \pm 5 seconds. Min. 100M-ohms
	DIELECTRICAL STRENGTH:	AC 1000V being applied between all the adjacent terminals and between the terminal and frame for 1 minute. There shall be no flashover
	OPERATING TEMPERATURE:	-25celsius degree to +85celsius degree
	STORAGE TEMPERATURE:	-30celsius degree to +85celsius degree
	OPERATING FORCE:	14 \pm 6gf Free and Operating position refer to individual drawing
	OPERATING FUNCTION:	Snap action
	MECHANICAL LIFE:	The test shall be made under the condition of no load and at a rate of 120 cycles/min. Min. 1,000,000 cycles shall be satisfied
	STRENGTH:	Button Strength: 3kgf for 1 minute Terminal Strength: 3kgf for 1 minute
	SOLDER ABILITY:	Soldering temp.: 225 \pm 5 Celsius degree Immersion time: 3 \pm 0.5sec The coverage of dipping into solder must be more than 90%
	SOLDERING Temperature:	Using a soldering iron of 30 watts controlled at 350°C ~360°C Celsius degree for 3sec. max.

TAIWAY ELECTRONICS COMPONENTS CO., LTD.

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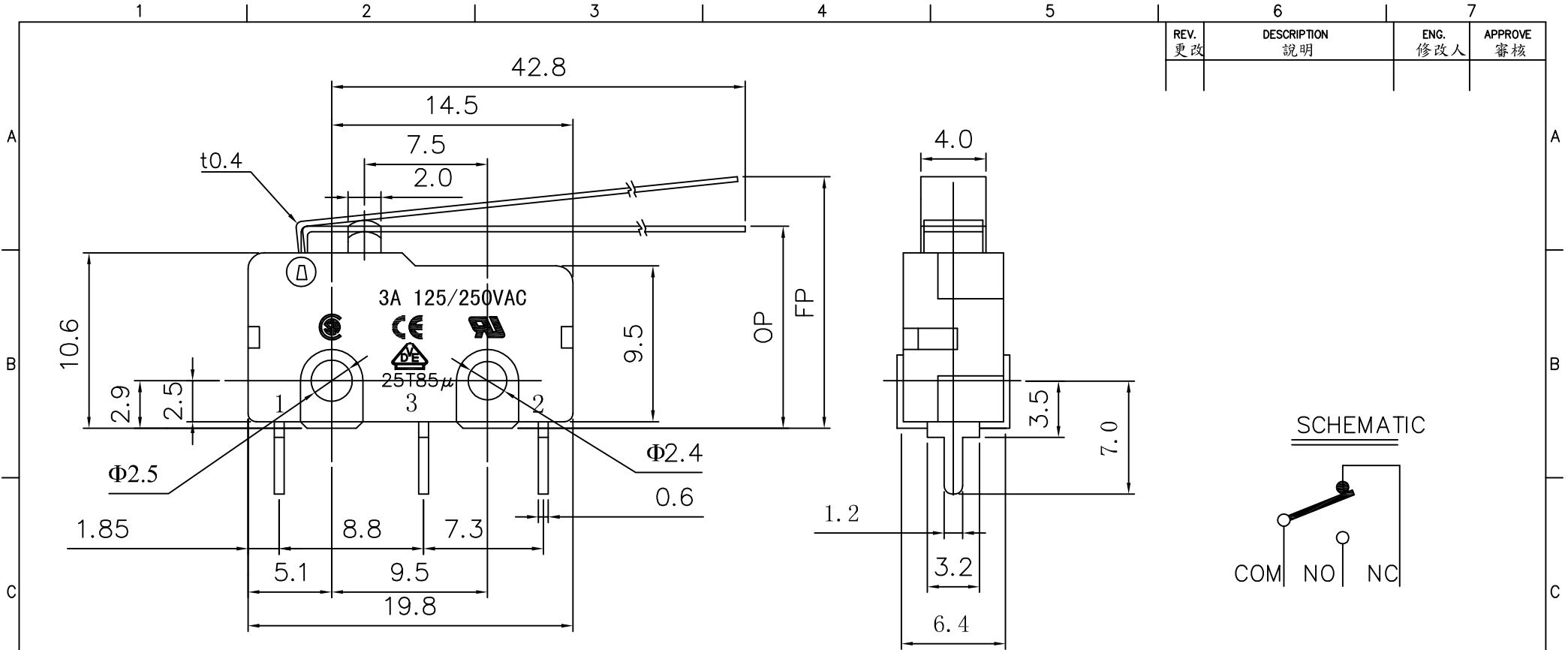
Page: 2 pages

MATERIAL CHARACTERISTICS	UPPER HOUSING:	PBT, black standard
	LOWER HOUSING:	PBT, black standard
	BUTTON:	PBT, black standard
	COMMON TERMINAL:	Brass, silver plated
	NC TERMINAL:	Brass, silver plated
	NO TERMINAL:	Brass, silver plated
	SPRING:	Spring Steel SUS304
	CONTACT:	Silver alloy
	CHANGE PLATE:	Phosphorus bronze
	LEVER:	SUS301
PACKAGE IDENTIFI- CATIONS:	A label marking "RoHS compliant" will be attached to the carton box or the smallest package	

Precaution of Handling:

- Avoid storing the product in a place where is high temperature and high humidity.
- All parts of the product can not be dissolved before soldering.
- The product can not be blown with air gun or cleaned with a solvent after soldering

REV. 更改	DESCRIPTION 說明	ENG. 修改人	APPROVE 審核



1. Functional spec.			
1.1 Rated Voltage	125/250VAC	1.6 Free Position	17.5 \pm 1.5mm
1.2 Rated Current	3A	1.7 Operating Position	13.0 \pm 2.0mm
1.3 Contact Resistance	$\leq 100m\Omega$	1.8 Position Travel	
1.4 Operating Force	14 \pm 6gf	1.9 Return Force	
1.5 Bounce Time		1.10	
2. Reliable Rating			
2.1 Mechanical Life	1,000,000 CYCLES	2.5 Soldering Technics	Flow Welding
2.2 Electrical Life	10,000 CYCLES	2.6 Operating Temper	-25°C~+85°C
2.3 Insulation Resistance	$\geq 100M\Omega$ DC500V	2.7 Ambient Humidity Used	<85%RH
2.4 Withstand Voltage	AC1000V 1 minute	2.8	

ITEM NO. 料號	DM-SM-07-M2
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USED 用途	APPD. 審核 Amy 2012/05/03		FINISH 處理
SCALE 比例 1 / 1	CHKD. 校對 Amy 2012/05/03		
DIMENSIONS 0.00 TO 10.00mm $\pm 0.20mm$ 10.01 TO 20.00mm $\pm 0.25mm$ 20.01 TO 25.00mm $\pm 0.30mm$ 25.01 TO 25.00mm $\pm 0.40mm$	TOLERANCE $\pm 1.0^\circ$	UNIT 單位 mm	DR. 製圖 Amy 2012/05/03
TITLE 名稱 MICRO SWITCH		SIZE 圖紙 A4	
DWG NO. 圖號 DM-SM-07-M2		REV. 更改 1	
FILE NAME 檔案名稱 DM-SM-07-M2.dwg		SHEET 張 1 / 1	7文號:ER-013b