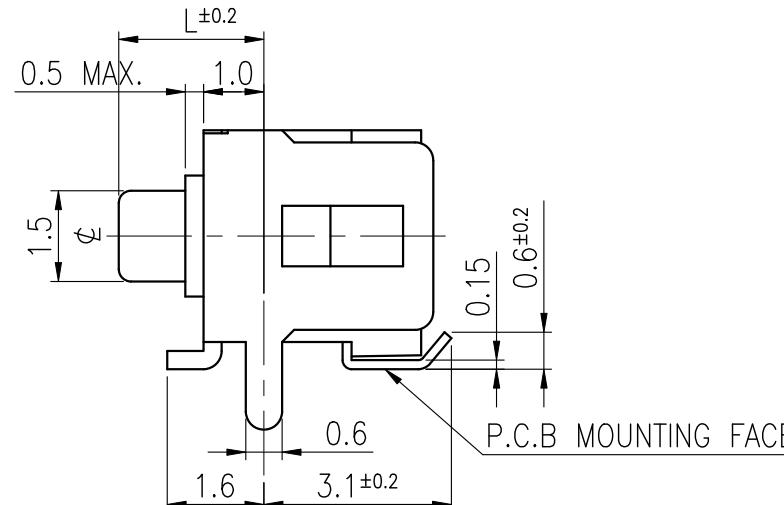
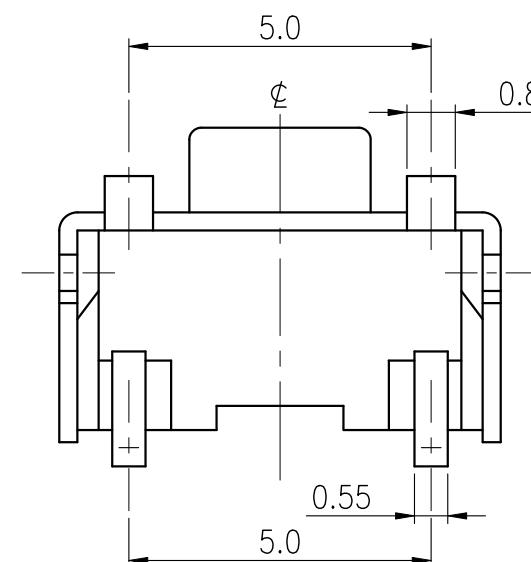
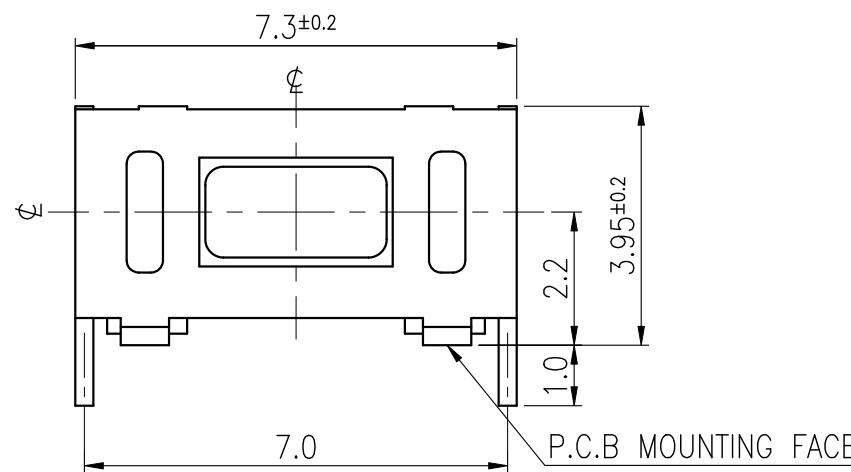
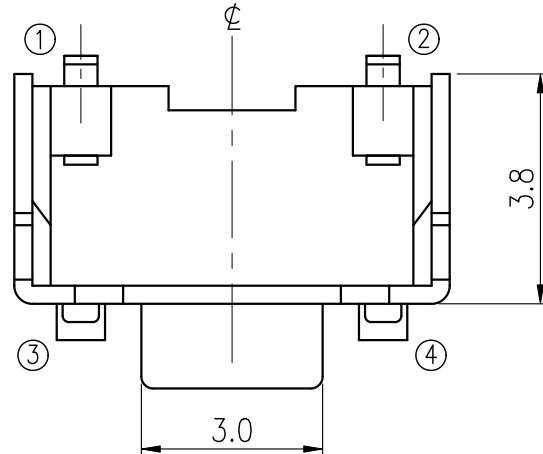
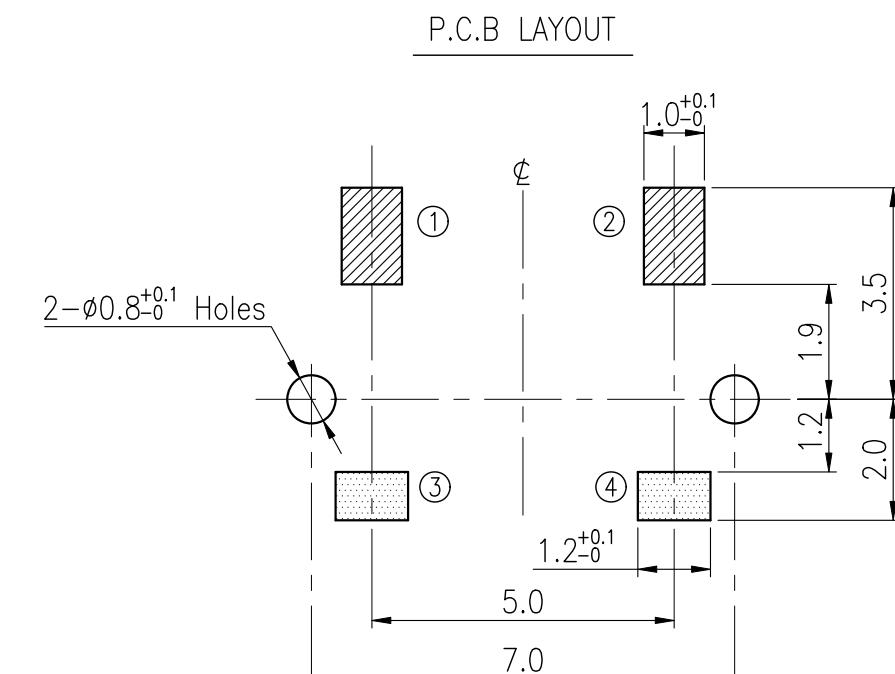


RoHS Compliant



MODEL NO.	L	FORCE
NTC303-CY1J-A180T	1.7	180 ± 50gf
NTC303-CY1J-B180T	2.4	
NTC303-CY1J-C180T	4.0	
NTC303-CY1J-A250T	1.7	250 ± 50gf
NTC303-CY1J-B250T	2.4	

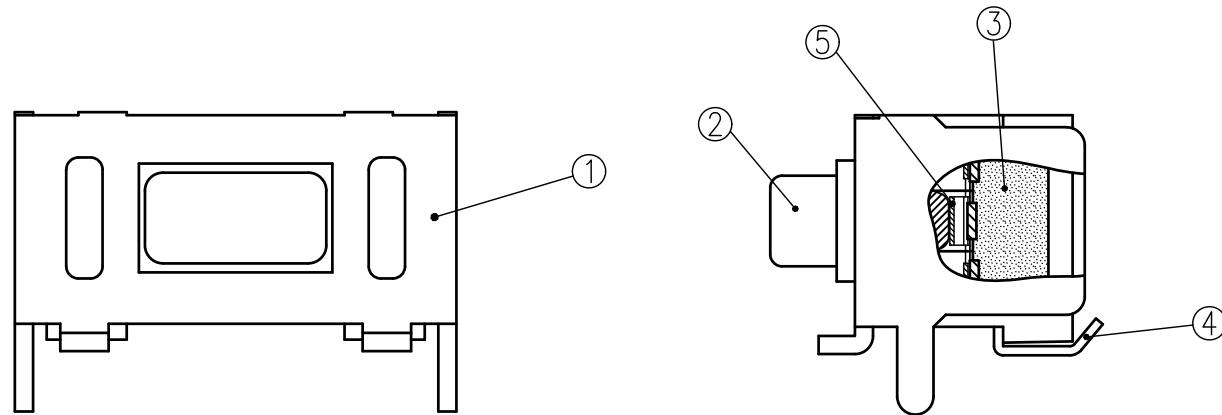


GROUND TERMINAL CAN BE  
EFFECTIVE EVEN IF NOT SOLDERED.

TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.1			SIGNATURES		DATE	MODEL
			DRAWER	Catherine Lee		
CHECKED						
	UNIT mm	SCALE 8/1	REVIEWED			NO. See Model No.
			APPROVALS Dennis Hung		2012.12.07	

TAIWAN MISAKI ELECTRONICS CO., LTD.

RoHS Compliant



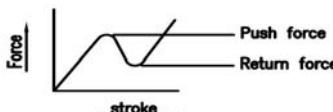
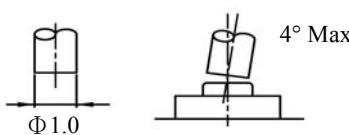
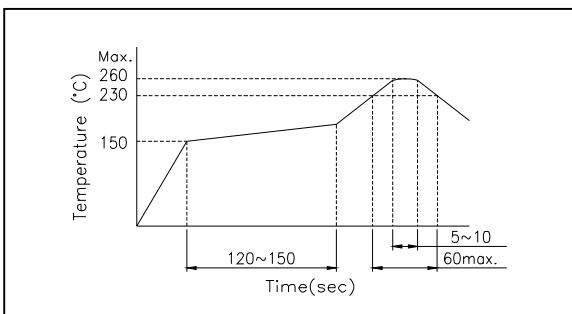
NO.	PART NAME	Q'TY	MATERIAL		SPECIFICATION	
5	CONTACT PLATE	2	STAINLESS STEEL PLATE		Ag-PLATING	
4	TERMINAL	2	COPPER ALLOY		Ag-PLATING OVER Ni PLATING	
3	FRAME	1	LIQUID CRYSTAL POLYMER		COLOR: BLACK	
2	STEM	1	LIQUID CRYSTAL POLYMER		COLOR: □180/BLACK, ■250/NATURE	
1	COVER	1	CARBON STEEL PLATE		MATTE Sn PLATING OVER Ni PLATING	
SYM	DESCRIPTION	DATE	APPROVED	SIGNATURES	DATE	MODEL
				DRAWN <i>Jane Shen</i>	2017.05.22	TITLE TACT SWITCH
				CHK'D		
				REV'D <i>Landry Su</i>	2017.05.22	NO. NTC303-CY1J-B250T
				APP'D <i>Dennis Hung</i>	2017.05.22	
				DWG NO.	NTC303-04	
TAIWAN MISAKI ELECTRONICS CO.,LTD.						



# SPECIFICATIONS FOR TACT SWITCH

RoHS Compliant

## 6. Mechanical Performance:

No.	Items	Test conditions	Specifications
6.1	Operating Force	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the center of the stem, the maximum load required for the switch to come to a stop shall be measured.  	<u>250</u> ± <u>50</u> gf.
6.2	Travel	Placing the switch such that the direction of switch operation is vertical and then applying a below static load to the center of the stem, the travel distance for the switch to come to a stop shall be measured.  	<u>0.25</u> ± <u>0.1</u> mm.
6.3	Control Strength	The static load of <u>3kgf</u> shall be applied on top of the terminal in every direction for 1 minute, in any direction on condition of once for one terminal.	Shall be free from extreme wobble, vent or electrical and mechanical abnormality. Not deformation of the appearance.
6.4	Solderability	Soldering temperature: $235 \pm 5^\circ\text{C}$ . Soldering time: $2 \pm 0.5$ seconds.	75% or more of surface area of the portion immersed in solder shall be satisfied.
6.4	Solder Heat Resistance	(1) Manual soldering temperature: Temperature: $350^\circ\text{C}$ Max. Time: 3 Sec. Max. (2) Reflow Soldering: Number of reflow pass: 2 cycles.  	Shall be free from pronounced deforming in appearance. Of item 5.1~5.4 shall be satisfied. Of item 6.1~6.2 shall be satisfied.

			APPROVED BY	REVIEWED BY	CHECKED BY	DESIGNED BY	SPEC NO.
							SE-TC07N
							PAGINATE
A	NEW RELEASE			Magic Chen 2009.7.20	Max Chen 2009.07.20	Ken Lin 2009.07.20	
SYM	DISCRIPTION	DATE	2009-07-20				2/3

# SPECIFICATIONS FOR TACT SWITCH

RoHS Compliant

## 7. Weather Performance:

No.	Items	Test conditions	Specifications												
7.1	Humidity Test	(1) Temperature: $60\pm2^{\circ}\text{C}$ . (2) Relative humidity: 90~95% (3) Duration of test: 500 Hour. (4) Take off a drop water. (5) Standard conditions after test: 1 Hour.	Contact resistance: $500\text{m}\Omega$ Max Of item 5.2~5.4 shall be satisfied. Of item 6.1~6.2 shall be satisfied.												
7.2	Heat Test	(1) Temperature: $85\pm2^{\circ}\text{C}$ . (2) Duration of test: 500 Hour. (3) Standard conditions after test: 1 Hour.													
7.3	Cold Test	(1) Temperature: $-40\pm2^{\circ}\text{C}$ . (2) Duration of test: 500 Hour. (3) Take off a drop water. (4) Standard conditions after test: 1 Hour.													
7.4	Temperature cycle	(1) Test cycle: <u>20</u> cycles. (2) Standard conditions after test: 1 Hour.	<table border="1"> <thead> <tr> <th></th> <th>Temperature</th> <th>Duration of test</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1 cycles</td> <td><math>20\pm5^{\circ}\text{C}</math></td> <td>1 Hour</td> </tr> <tr> <td><math>-40\pm2^{\circ}\text{C}</math></td> <td>1 Hour</td> </tr> <tr> <td><math>20\pm5^{\circ}\text{C}</math></td> <td>1 Hour</td> </tr> <tr> <td><math>85\pm2^{\circ}\text{C}</math></td> <td>1 Hour</td> </tr> </tbody> </table>		Temperature	Duration of test	1 cycles	$20\pm5^{\circ}\text{C}$	1 Hour	$-40\pm2^{\circ}\text{C}$	1 Hour	$20\pm5^{\circ}\text{C}$	1 Hour	$85\pm2^{\circ}\text{C}$	1 Hour
	Temperature	Duration of test													
1 cycles	$20\pm5^{\circ}\text{C}$	1 Hour													
	$-40\pm2^{\circ}\text{C}$	1 Hour													
	$20\pm5^{\circ}\text{C}$	1 Hour													
	$85\pm2^{\circ}\text{C}$	1 Hour													

## 8. Durability:

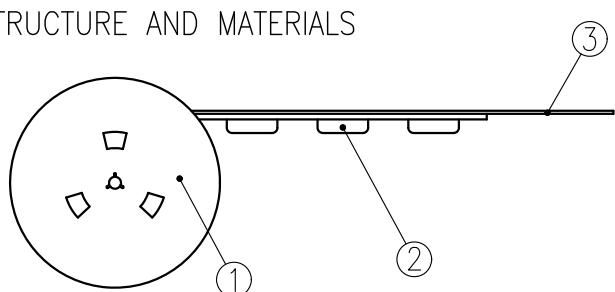
No.	Items	Test conditions	Specifications
8.1	Life Test	(1) 5V D.C. , 5mA Resistance load. (2) Operating speed:120 cycles/minute. (3) Push force: Maximum value of operation force. (4) Operation number: <u>50,000</u> times.	Contact Resistance: <u><math>1\Omega</math></u> MAX. Bounce: 20m sec Max.(ON,OFF) Operating Force: Within $\pm30\%$ of specifications. Of item 5.2 shall be satisfied. Of item 6.2 shall be satisfied.

			APPROVED BY	REVIEWED BY	CHECKED BY	DESIGNED BY	SPEC NO.
							SE-TC07N
A	NEW RELEASE			Magic Chen 2009.7.20		Ken Lin 2009.07.20	
SYM	DISCRIPTION	DATE	2009-07-20		Max Chen 2009.07.20		PAGINATE
							3/3

# THE PACKING SPECIFICATIONS

RoHS Compliant

## 1. STRUCTURE AND MATERIALS

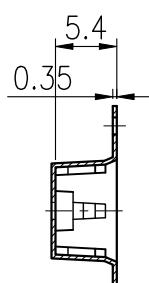
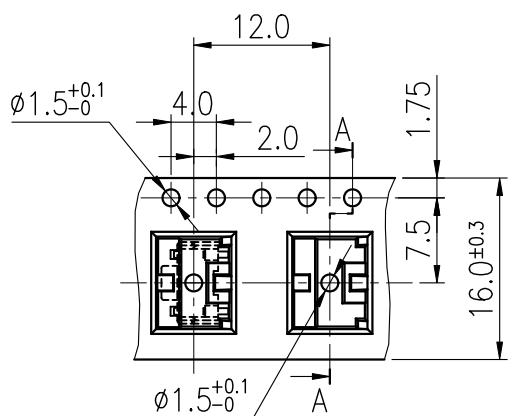


NO.	PARTS NAME	MATERIALS
(3)	COVER TAPE	POLYESTER
(2)	CARRIER TAPE	POLYSTYRENE
(1)	REEL	POLYSTYRENE

- PACKAGING QUANTITY : 1,000 PCS/REEL
- MORE THAN 10 EMPTY POCKETS SHOULD BE REMAINED AT BOTH ENDS OF THE CARRIER TAPE FOR EACH REEL.
- SHORTAGE LESS THAN 10 PCS A REEL IS ACCEPTABLE BUT MORE THAN 3 RUNNING POCKETS SHORTAGE IS NOT ALLOWED.
- STRIPPING STRENGTH OF COVER TAPE IS BETWEEN 10 gf TO 130 gf AND STRIPPING ANGLE SHOULD BE WITHIN 165° ~ 180°.
- THE PRODUCT IN THE POCKET OF CARRIER TAPE SHOULD BE PLACED IN A SPECIFIED CORRECT POSITION.
- TAPE AND REEL PER EIA-481.
- DIMENSIONS :

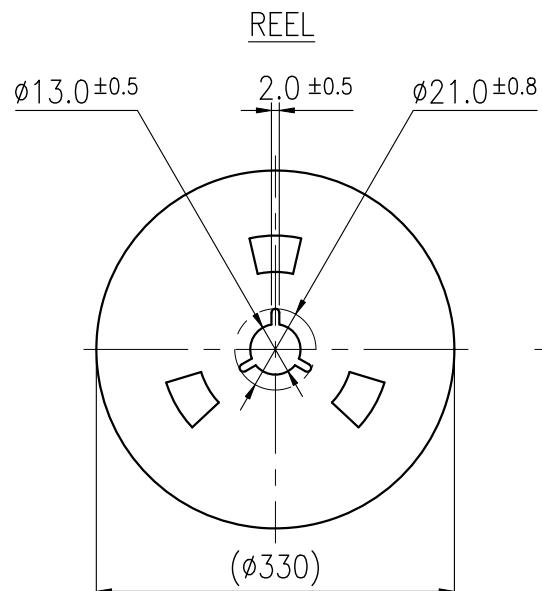


### CARRIER TAPE

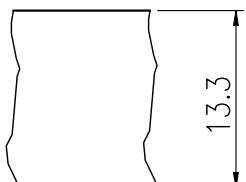


DRAWING DIRECTION

SECTION A-A



### COVER TAPE



16.4<sup>+2.0</sup><sub>-0</sub>  
22.4 MAX.

				APPROVED BY	REVIEWED BY	CHECKED BY	DESIGNED BY	MODEL NO.
				Dennis Hung 2012.01.10		Jamie Li 2012.01.10	Catherine Lee 2012.01.10	NTC303-CY1J - B250 T
SYM	DESCRIPTION	DATE	APPROVED					PAGINATE. 1/1
								SPEC NO. P-695