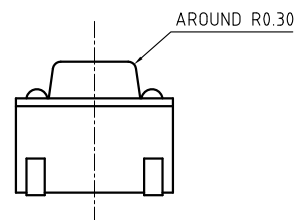
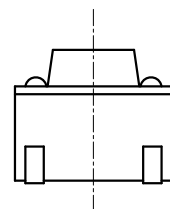
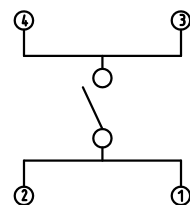


P.C.B LAND DIMENSION

CIRCUIT DIAGRAM



JTP1138A6(H)

RevNo	Revision note	Date	Signature
△	1138A6(H) 등록 REDRAWING	2011.01.24	M.W.SHIN

NOTE

1. TRAVEL : $0.25 + 0.2 / - 0.1$ mm
2. CONTACT RESISTANCE : $50m\Omega$ Max
3. GENERAL TOLERANCE : ± 0.3
4. MANUFACTURING SPECIFICATION WOULD BE ACCORDANCE WITH JT 0105-1LF
5. TER' BENDING시 좌우편차는 0.1 이내일 것.



MODEL	CODE NO.	L	I(φ)	T/CASE COLOR	STEM COLOR	O/FORCE	REMARKS
JTP1138A6(H)	110011138188	5.00	3.50	NATURAL(IVORY)	YELLOW GREEN	160±50gf	
JTP1138A6T	110011138206	5.00	3.50	BROWN	BLACK	160±50gf	
JTP1138A6	110011138004	5.00	3.50	BROWN	BLACK	160±50gf	

Designed by	M.W.SHIN	Unit	mm	Scale	N/S	Date	2011.01.24
Checked by							
Approved by		Tool	A	Sheet	1/1	Rev.	1
Item	TACTILE SWITCH	Drawing name	JTP1138□6 SERIES	ASS'Y DIAGRAM			




	SPECIFICATION	Page : 2 / 4
	TACT SWITCH	

4. MECHANICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
4.1	Actuating force	A gradually increasing load is applied to the center of the stem.	*As per individual manufactured drawing.
4.2	Return force	After actuating, the load is gradually decreased until the stem returns to its free position.	*160gf, 260gf : greater than 50gf. *100gf : greater than 30gf.
4.3	Stop strength	A static force of 3Kgf shall be applied to the direction of the stem operation for 3 seconds.	*Shall be free from mechanical and electrical abnormalities.
4.4	Stem withdrawal force	A static load of 500gf is applied to the direction of the stem pulling for 3 seconds.	*Shall be free from mechanical and electrical degradation.
4.5	Solderability	Dip in the solder bath of temperature $230\pm 2^{\circ}\text{C}$ for 2 ± 0.5 sec after dipping in the flux of room temperature for 5 sec to 10 sec. The solder shall be covered on 90% min of dipping area on the plating surface.	
4.6	Travel		*0.25 $\begin{smallmatrix} +0.2 \\ -0.1 \end{smallmatrix}$ mm
4.7	Arrangement of action		*Tactile feed-back.

5. DURABILITY

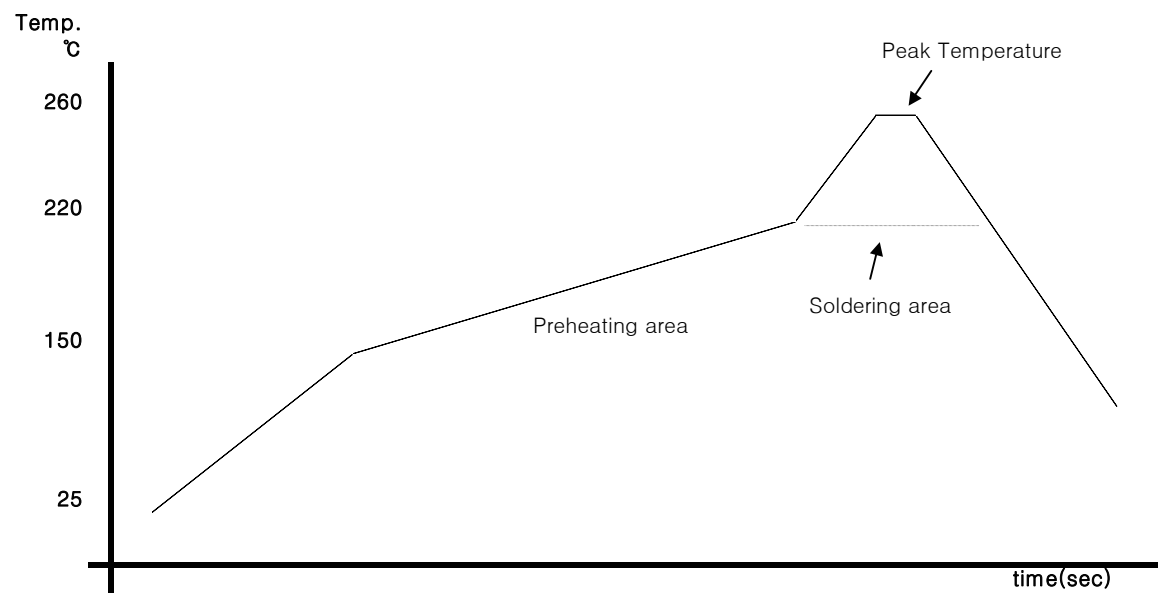
	PROPERTY	TEST CONDITIONS	PERFORMANCE
5.1	Operating life	100,000 cycles operation with a load of 150% of actuating force a rate of 2 cycles/sec. With a resistive load supplying DC 12V 50mA.	*Contact resistance : 200m Ω max. *Bounce : 20m sec max. *Actuating force : within $\pm 30\%$ of the initial value.

						APPD	CHKD	DSGD	TITLE
									
ZONE	SYMB	DATE	APPD	CHKD	DSGD				DOCUMENT NO. JT 0105-1LF




	SPECIFICATION	Page : 4 / 4
	TACT SWITCH	

7. REFLOW SOLDERING

- 7.1 Reflow soldering conditions
- 1) Preheat ----- 150℃ ~ 200℃, 120 ±20 (sec)
 2) Peak temperature --- 260℃ max. 10 (sec)
 3) Soldering area temperature ----- 217℃, 90 ~ 120 (sec)






< Temperature profile >

						APPD	CHKD	DSGD	TITLE	
										
									DOCUMENT	
ZONE	SYMB	DATE	APPD	CHKD	DSGD				NO.	JT 0105-1LF

재 질 증 명 서

(CERTIFICATION OF MATERIAL)

결 재	작 성	검 토	승 인
			

일 자 2009년 5월 21일
DATE

제품명 TACT SWITCH
ITEM

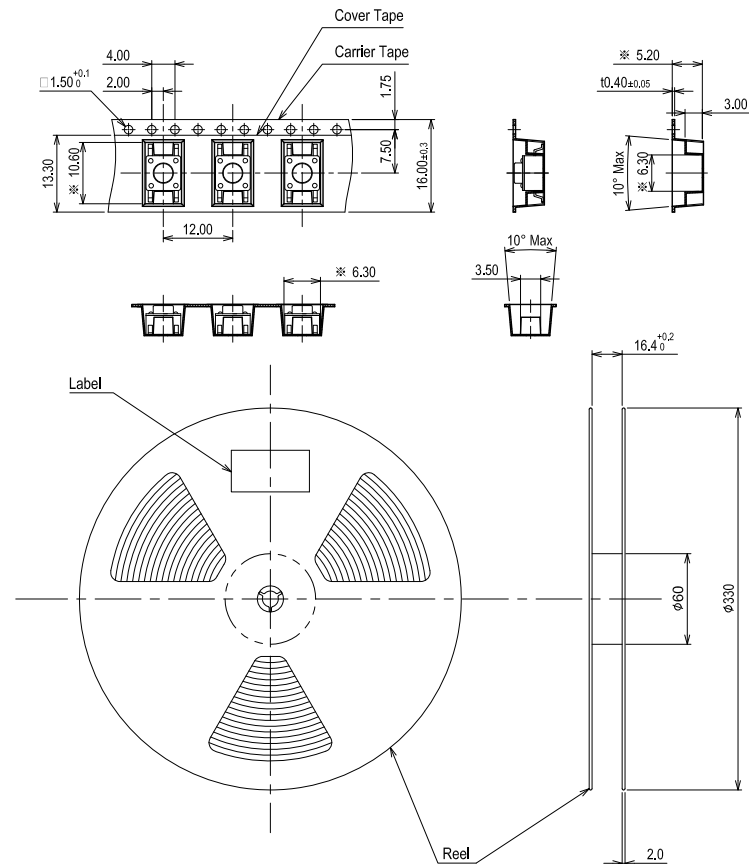
제품 번호 JTP-1138A6EM
MODEL No.

상기 제품은 하기재료를 사용하고 있음을 증명합니다.
(The above item is certified to use with following materials.)

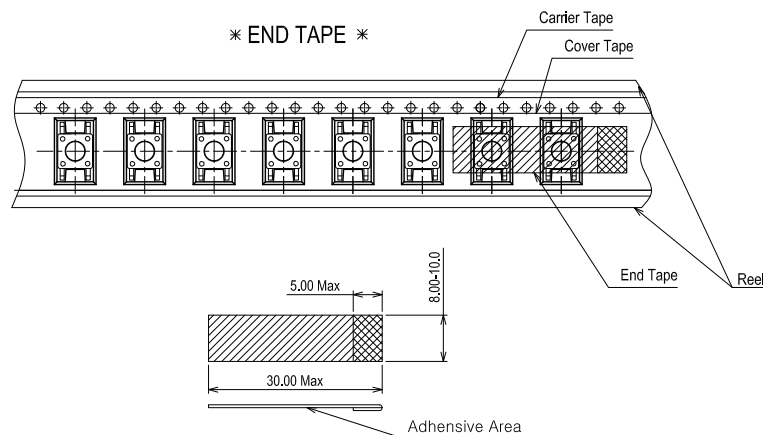
No.	구성부품명 (Part name)	원재료(Material)				난연성 (Flame class)	UL (File No.)	색상 (Color)
		Material name	Treatment	Manufacturer	Nationality			
1	CASE	PPS		LG CHEMICAL PHILLIPS	KOREA JAPAN	UL94V-0	E67171(M) E54700	BROWN
2	COVER	TIN PLATE		DONG BU	KOREA			
3	STEM	PA6T		MITSUMI CHEMICAL	JAPAN	UL94V-0	E125671(M)	BLACK
4	TERMINAL	BRASS	Ag plating	POONG SAN	KOREA			
5	CONTACT PLATE	PHOSPHOR BRONZE	Ag clad	POONG SAN	KOREA			
6								
7								
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10								
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16								

NAMAE ELECTRONICS INC.

※ THE DIMENSION OF CARRIER TAPE, COVER TAPE AND REEL ※



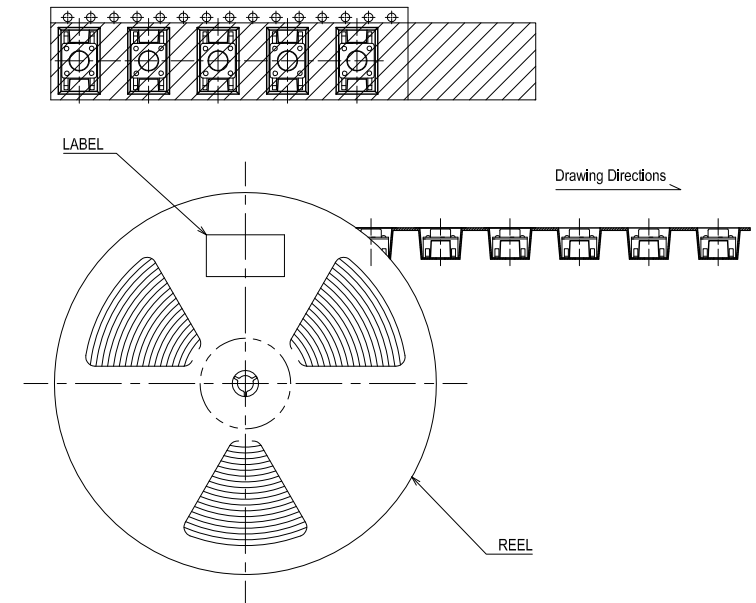
※ END TAPE ※



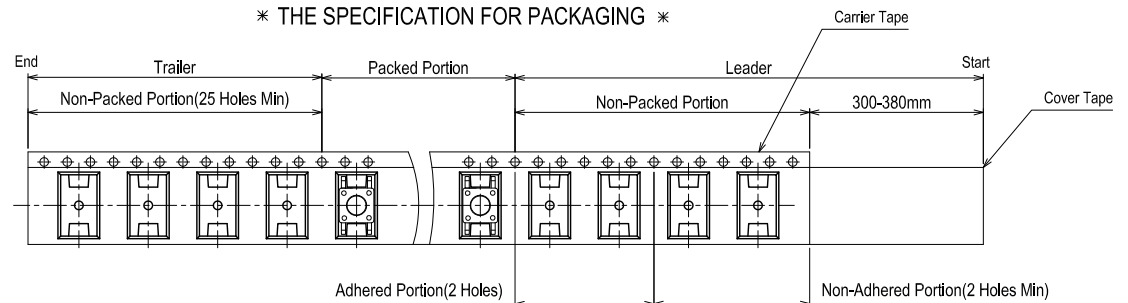
※ MODEL

MODEL	CODE No.
JTP1138A4EM	110011138003
JTP1138A6EM	110011138005
JTP1138AEM	110011138006
JTP1138GAEM	110011138016
JTP1138HAEM	110011138017
JTP1138WAEM	110011138029
JTP1138KAEM	110011138070
JTP1138VAEM	110011138074
JTP1138HKAEM	110011138077
JTP1138AS9EM	110011138124
JTP1138WKAEM	110011138126
JTP1138WAGEM	110011138173
JTP1138A6EM(H)	110011138189
JTP1138HKANEM	110011138205
JTP1138A6TEM	110011138207
JTS1138AEM	110131138082
JTS1138WAEM	110131138085

※ THE DIRECTION OF PILOT HOLES ※



※ THE SPECIFICATION FOR PACKAGING ※



NOTE:

- 1,200pcs switches per 1 reel; (但JTP1138AEM包装数量1,000pcs)
- General tolerance : $\pm 0.1\text{mm}$

Designed by H.Z.T									
Checked by									
Approved by		Unit	mm	Scale	1/1	Date	2010.05.20		
Item	Tactile switch		Tool	A-Cad		Sheet	1/1	Rev.	0
Model	JTP-1138AEM Series		Drawing name EMBOSSSED TAPE ASS'Y						