DIMENSION	TOLERANCE
BELOW 10 mm	± 0.3
10~100 mm	± 0.5
ABOVE 100 mm	± 0.8
ANGLE	± 3°

27.2
15
5.5
9.4
6.6
□3.3

17.5
12.7
1.2
10
2.43
6.5
0.8

2.5
10
Thermosetting
Ø1.5

6.6
1.2
6.4

SCHEMATIC

1   2

P.C.B. LAYOUT

2-Ø1.5
6.4
3.2
3.2
6.5
6.42
10
4-Ø1.52 +0.05 -0.00
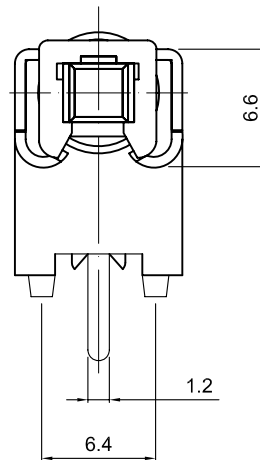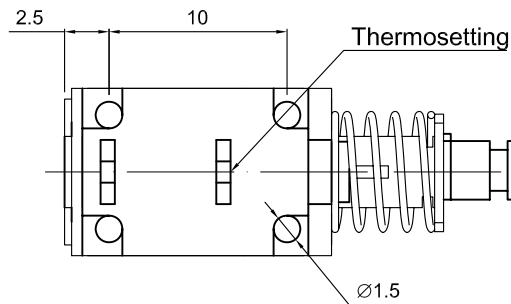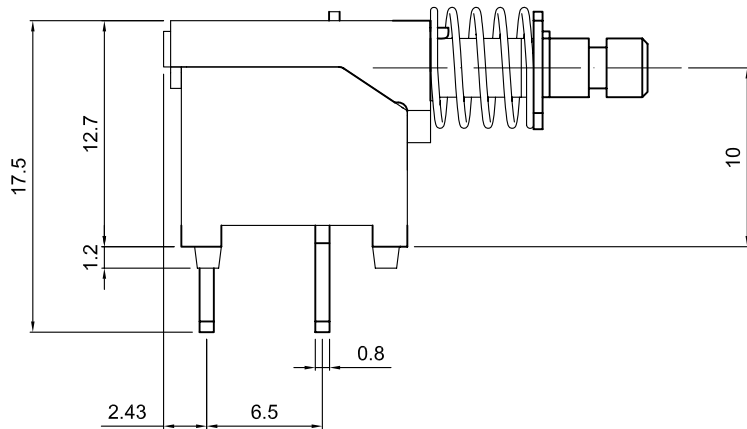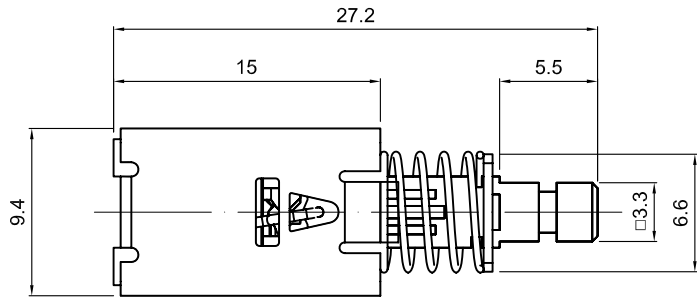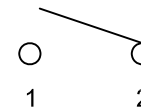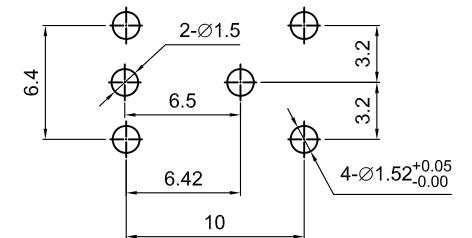
SPECIFICATIONS

1. RATING : 30VDC 6 A

2. CONTACT RESISTANCE : 100 mΩ MAX.

3. INSULATION RESISTANCE : 500 VDC , 100MΩ MIN.

4. OPERATION TEMPERATURE : -20°C~ +70°C

5. OPERATION FORCE : 300±150 gf

6. OPERATING LIFE : 6,000 CYCLES

7. FULL TRAVEL: 3.8mm±0.3mm

△3				DATE	2009/05/13	UNIT	mm	MODE	PUSH BUTTON SWITCH	
△2				APPROVAL	KAVEN	SCALE	1 : 1	PART	PS015-PLAA	淮洋有限公司
△1				CONFIRM	ALAN	VIEW	⌖ ⊏	2D FILE NAME	PS015-PLAA	HUAI YANG CO.,LTD.
DATE	APPROVAL	DESIGN	ENGINEERING CHANGE DESCRIPTION	DESIGN	zcj	VER.	01	3D FILE NAME		www.hy1688.com.tw

SPECIFICATIONS OF PS015 SERIES
POWER PUSH BUTTON SWITCHES

1. POLE - POSITION：SPST.

2. RATING：30V DC　2A , 6A.

3. OPERATING TEMPERATURE RANGE：-20℃ ~ 70℃

4. ELECTRICAL PERFORMANCE.

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT RESISTANCE	DC 1.5V 100mA BY METHOD OF VOLTAGE DROP.	100 mΩ MAX.
4-2	INSULATION RESISTANCE	DC 500V	100 MΩ MIN.
4-3	DIELECTRIC STRENGTH	AC 500V 1 MINUTE BETWEEN TERMINALS	BREAKDOWN IS NOT ALLOWALE.

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	OPERATING FORCE	LOCK TYPE	300±150gf
5-2	TRAVEL	FULL TRAVEL	3.8±0.3 mm
5-3	ROBUSTNESS OF TERMINAL	500gf FOR 1 MINUTE	TERMINAL COULD BE BENT BUT LOOSENED TERMINAL OR BASE FRAME BROKEN IS NOT ALLOWABLE.
5-4	ROBSTNESS OF ACTUATOR	TO APPLY A STATIC LOAD 2Kgf VERTICALLY TO END OF ACUTATOR TO PUSH IT FOR15 SECONDS.	ACTUATOR BROKEN OR ANY UNUSUAL APPEARANCE OCCURRED ON SWITCH ONSTRUCTION IS NOT ALLOWABLE.
5-5	SOLDERABILITY	260±5℃　IN 3 SECONDS	SOLDER COVERAGE 75% Min.

6. RESISTANCE OF SOLDERING HEAT
   6-1 MANUAL SOLDERING：300±5℃ IN 3 SECONDS
   6-2 DIP SOLDERING：260±5℃ IN 3 SECONDS

7. DURABILITY：AFTER 6,000 LIFE CYCLES
   7-1 CONTACT RESISTANCE：150 mΩ MAX.
   7-2 OPERATING FORCE：WITHIN THE RANGE OF ±30% OF
                         OPERATING FORCE SPECIFICATION.
   7-3 INSULATION RESISTANCE AND DIELECTRIC STRENGTH SHALL
       MEET THE REQUIREMENTS OF 4-2 AND 4-3.

8. ENVIRONMENTAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
8-1	COLD	-20℃±2℃ FOR 48 HOURS	1. IT SHOULD MEET REQUIREMENTS OF ITEM 4. 2. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL.
8-2	DRY HEAT	70℃±2℃ FOR 48 HOURS	1. CONTACT RESISTANCE SHOULD BE LESS THAN 150 mΩ. 2. IT SHOULD MEET REQUIREMENTS OF 4-2 AND 4-3. 3. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL.
8-3	DAMP HEAT	40℃±2℃ 90% ～ 95%RH FOR 48 HOURS	1. CONTACT RESISTANCE SHOULD BE LESS THAN 150 mΩ. 2. INSULATION RESISTANCE SHOULD BE HIGHER THAN 100 Ω. 3. DIELECTRIC SHOULD MEET REQUIREMENTS OF 4-3. 4. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL.
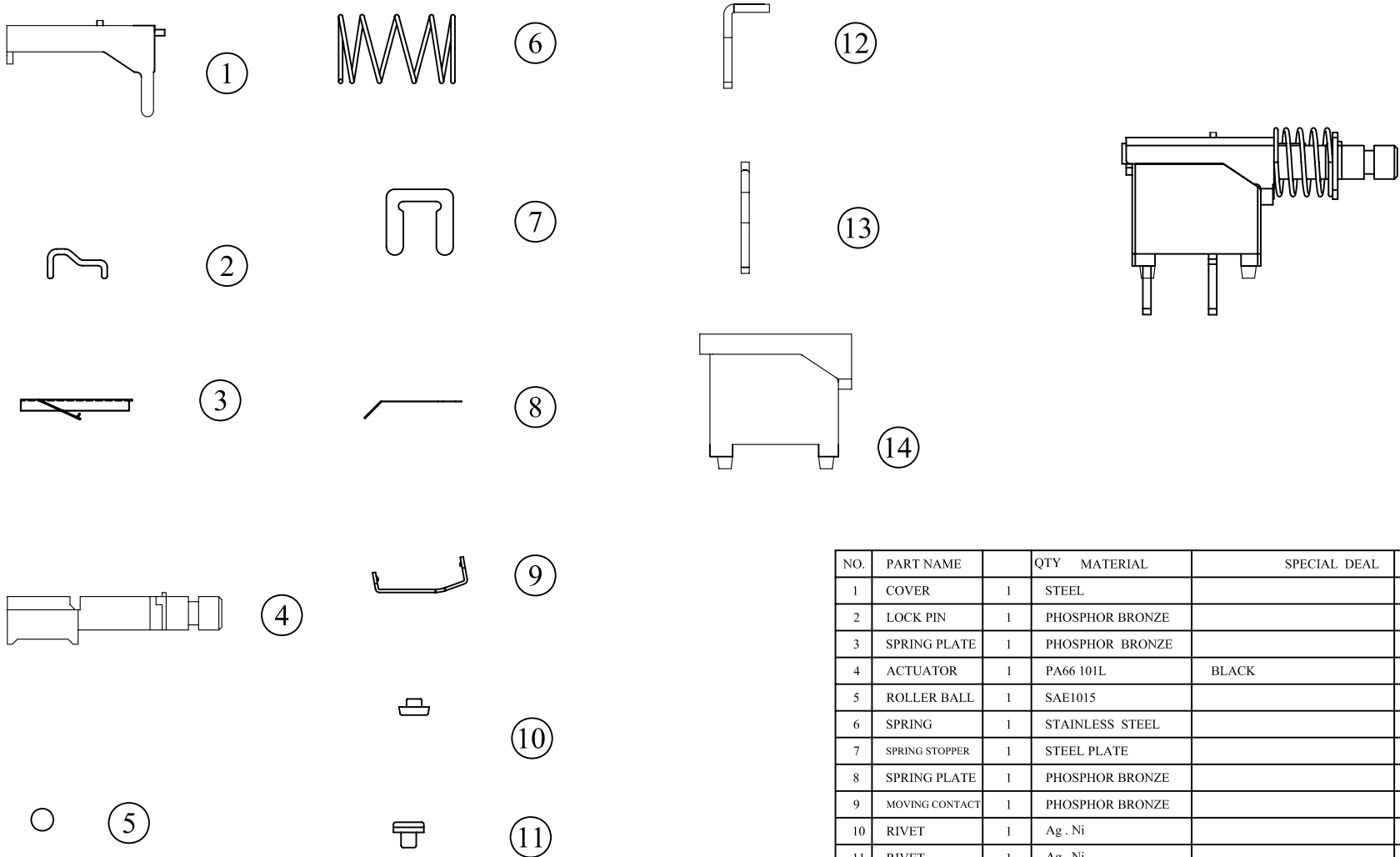
NO.	PART NAME	QTY	MATERIAL	SPECIAL DEAL	RoHS REPORT No.
1	COVER	1	STEEL		CE/2010/B3873
2	LOCK PIN	1	PHOSPHOR BRONZE		CE/2011/12722A
3	SPRING PLATE	1	PHOSPHOR BRONZE		CE/2011/12722A
4	ACTUATOR	1	PA66 101L	BLACK	CE/2010/B4129
5	ROLLER BALL	1	SAE1015		CE/2010/B4129
6	SPRING	1	STAINLESS STEEL		CE/2010/B3872
7	SPRING STOPPER	1	STEEL PLATE		KA/2010/70927 ; CE/2010/C5613
8	SPRING PLATE	1	PHOSPHOR BRONZE		CE/2011/12722A
9	MOVING CONTACT	1	PHOSPHOR BRONZE		CE/2011/12722A
10	RIVET	1	Ag . Ni		CE/2011/12724A ; CE/2010/C5617 ; CE/2010/C5613
11	RIVET	1	Ag . Ni		CE/2011/12724A ; CE/2010/C5617 ; CE/2010/C5613
12	TERMINAL	1	BRASS	SILVER PLATING 0.5μm MIN	CE/2011/12724A; CE/2010/C5617
13	TERMINAL	1	BRASS	SILVER PLATING 0.5μm MIN	CE/2011/12724A; CE/2010/C5617
14	FRAME	1	PA66 70G33L	BLACK	CE/2011/51995 ; CE/2011/21636 ; CE/2011/21637

				DATE	2011/11/18	UNIT	mm	MODE	PUSH BUTTON SWITCH
				APPROVAL	KAVEN	SCALE	1 : 1	PART	PS015-PLAA MATERIALS LIST
				CONFIRM	ALAN	VIEW	⊕ ⊲	2D FILE NAME	PS015-PLAA MATERIALS LIST
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