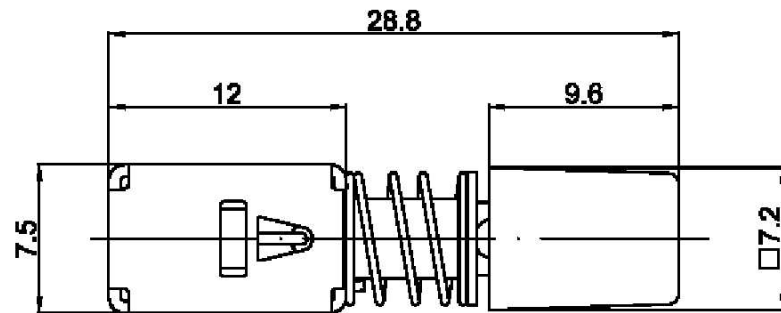
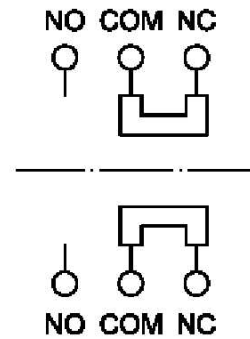


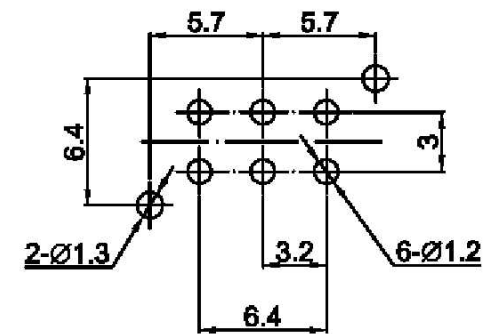
DIMENSION	TOLERANCE
BELOW 10 mm	± 0.3
10~100 mm	± 0.5
ABOVE 100 mm	± 0.8
ANGLE	± 3°



SCHEMATIC

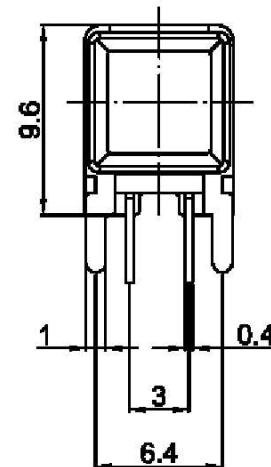
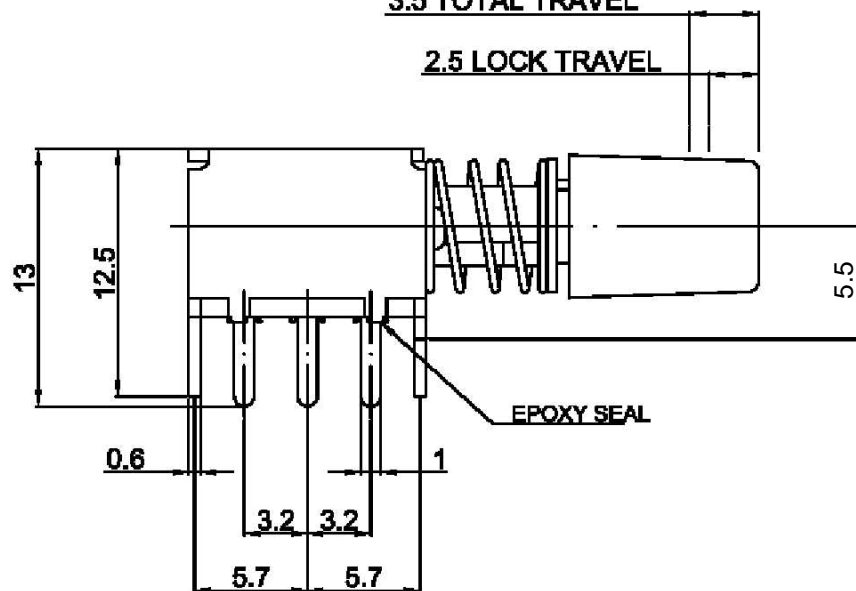


P.C.B. LAYOUT



3.5 TOTAL TRAVEL

2.5 LOCK TRAVEL



1. LOCK TYPE .
2. RATING : 30 V DC , 2 A
3. CONTACT RESISTANCE : 50 mΩ MAX .
4. INSULATION RESISTANCE : 500 V DC , 100 MΩ MIN .
5. OPERATING FORCE : 200±150 gf (1P2T) ,
300±150 gf (2P2T & 4P2T) .
6. OPERATING TEMPERATURE : -20°C ~ 70°C .
7. OPERATING LIFE : 5,000 CYCLES .

△					DATE	2007/11/19	UNIT	mm	MODE	PUSH BUTTON SWITCH	HUI YANG CO., LTD.
△					APPROVAL	KAVEN	SCALE	1 : 1	PART	M-B2PL-40	
△					CONFIRM	ALAN	VIEW	◆	2D FILE NAME	M-B2PL-40	
	DATE	APPROVAL	DESIGN	ENGINEERING CHANGE DESCRIPTION	DESIGN	JUN	VER.	01	3D FILE NAME		

HUAI YANG CO.,LTD.
SPECIFICATIONS OF M SERIES
PUSH BUTTON SWITCHES

1. POLE - POSITION : 1P2T, 2P2T, 4P2T, MOMENTARY AND LOCK TYPE ARE AVAILABLE °
2. OPERATING TEMPERATURE RANGE : -20°C ~ 70°C °
3. RATING : 30V DC 2A ° (INRUSH CURRENT : 45A-65A(Max))

4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT RESISTANCE	DC 1.5V 100mA, BY METHOD OF VOLTAGE DROP °	50 mΩ MAX.
4-2	INSULATION RESISTANCE	DC 500V °	100 MΩ MIN.
4-3	DIELECTRIC STRENGTH	AC 500V FOR 1 MINUTE °	BREAKDOWN IS NOT ALLOWABLE °

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	OPERATING FORCE	1P2T 2P2T 4P2T	800±200gf
5-2	TRAVEL	LOCK TRAVEL °	2.5 ± 0.3 mm
5-3	TIMING	NON-SHORTING TYPE °	
5-4	ROBUSTNESS OF TERMINAL	ANY DIRECTION TO APPLY A STATIC LOAD 500gf AT END OF TERMINAL FOR 1 MINUTE. ONCE FOR A TERMINAL ONLY °	TERMINAL COULD BE BENT BUT LOOSENED TERMINAL OR BOARD BROKEN IS NOT ALLOWABLE °
5-5	ROBUSTNESS OF ACTUATOR	ALONG OPERATING DIRECTION TO APPLY A STATIC LOAD 5 Kgf AT END OF ACTUATOR FOR 1 MINUTE °	ACTUATOR BROKEN, DEFORMED OR ANY UNSUAL APPEARANCE OCCURRED ON SWITCH CONSTRUCTION IS NOT ALLOWABLE °

5-6	SOLDERABILITY	260±5℃ IN 3 SECONDS °	SOLDER COVERAGE 75% Min. °
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6. RESISTANCE OF SOLDERING HEAT

6-1 MANUAL SOLDERING : 300±5℃ IN 3 SECONDS °

6-2 DIP SOLDERING : 260±5℃ IN 3 SECONDS °

7. OPERATING LIFE WITHOUT LOAD AFTER 5,000 CYCLES

7-1 CONTACT RESISTANCE : 100 mΩ MAX. °

7-2 OPERATING FORCE : WITHIN THE RANGE ±30% OF SPECIFICATION.

7-3 INSULATION RESISTANCE : 500V DC 100MΩ MIN. °

7-4 DIELECTRIC STRENGTH : 500V AC FOR 1 MINUTE, BREAKDOWN IS NOT ALLOWABLE °

8. ENVIRONMENTAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
8-1	COLD	-20±2℃ FOR 96 HOURS	1. IT SHOULD MEET REQUIREMENTS OF ITEM 4 ° 2. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL °
8-2	DRY HEAT	70±2℃ FOR 96 HOURS	1. CONTACT RESISTANCE SHALL BE LESS THAN 100 mΩ ° 2. IT HAS TO MEET THE REQUIREMENTS OF 4-2 AND 4-3 ° 3. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL °
8-3	DAMP HEAT	40℃±2℃ 90% ~ 95%RH FOR 96 HOURS	1. CONTACT RESISTANCE SHALL BE LESS THAN 100 mΩ ° 2. INSULATION RESISTANCE SHOULD BE HIGHER THAN 10 MΩ ° 3. DIELECTRIC STRENGTH SHOULD MEET THE REQUIREMENTS OF 4-3 ° 4. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL °