

knitter - switch

SPECIFICATIONS OF MSP 101 A PUSH BUTTON SWITCH

1. POLE - POSITION : 1P1T MOMENTARY OR LOCK ARE AVAILABLE.
2. OPERATING TEMPERATURE RANGE : -20 ~ 70
3. RATING : 1A @ 120V AC OR 28V DC

4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT RESISTANCE	DC 1.5V 100mA, BY METHOD OF VOLTAGE DROP.	30m MAX.
4-2	INSULATION RESISTANCE	DC 500V	100M 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	A STATIC LOAD TO BE ADDED AT THE END OF ACTUATOR TO PUSH ALONG OPERATING DIRECTION.	650±150gf
5-2	ROBUSTNESS OF TERMINAL	500gf FOR 1 MINUTE	TERMINAL BENT OR BOARD BROKEN IS NOT ALLOWABLE.
5-3	ROBUSTNESS OF ACTUATOR	3Kgf	ACTUATOR BROKEN OR ANY UNSUAL APPEARANCE OCCURRED ON SWITCH CONSTRUCTION IS NOT ALLOWABLE.

5-4	SOLDERABILITY	240±2	IN 3 SECONDS	75% Min.
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6. RESISTANCE OF SOLDERING HEAT

6-1 MANUAL SOLDERING : 300±2 IN 3 SECONDS

6-2 WAVE SOLDERING : 240±2 IN 3 SECONDS

7. TRAVEL : 3.3mm (FULL TRAVEL)

8. OPERATING LIFE WITHOUT LOAD AFTER 10,000 CYCLES

8-1 CONTACT RESISTANCE : 50m MAX.

8-2 OPERATING FORCE : WITHIN THE RANGE +10% ~ -30% OF THE
OPERATING FORCE SPECIFICATION.

8-3 INSULATION RESISTANCE : DC 500V 100M MIN.

8-4 DIELECTRIC STRENGTH : AC 500V FOR 1 MINUTE.

9. ENVIRONMENTAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
10-1	COLD	-20±2 FOR 24 HOURS	IT HAS TO MEET ELECTRICAL PERFORMANCE REQUIREMENTS AS CLAUSE 4 STATED.
10-2	DRY HEAT	70 ±2 FOR 48 HOURS	1. CONTACT RESISTANCE SHALL BE LESS THAN 50m . 2. IT HAS TO MEET THE REQUIREMENTS OF 4-2 AND 4-3.
10-3	DAMP HEAT	40 ±2 90% ~ 95%RH FOR 96 HOURS	1. CONTACT RESISTANCE SHALL BE LESS THAN 50 m . 2. INSULATION RESISTANCE SHALL BE HIGHER THAN 10M .

			3. DIELECTRIC STRENGTH SHALL MEET THE REQUIREMENTS OF 4-3.
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