TITLE	PRODUCT SPECIFICATIONS				
MODEL No.	HOOK SWITCH (MH2240)	PAGE	1/3		

## 1. GENERAL MATTERS

- 1.1 Application: This specification is applied to low current circuit hook switch for electronic equipment
- 1.2 Operating temperature range : -20~70  $^{\circ}\text{C}$  , 45  $^{\sim}$  85% RH
- 1.3 Storage temperature range : -30  $\sim$  80  $^{\circ}$ C, however 96 hours maximum for continuous storage over a range -20  $\sim$  30  $^{\circ}$ C and a range 70  $\sim$  80  $^{\circ}$ C

## 1.4 Test conditions:

The standard test conditions shall be  $5\sim35\,^{\circ}\mathrm{C}$  in temperature,  $45\sim85\%$  RH and  $860\sim1060$ mbar in atmospheric pressure.

Should any doubt arise in judgement, tests shall be conducted at  $20\pm2^{\circ}$ C,  $65\pm5\%$  RH and  $860\sim1060$  mbar.

## 2. RATED VOLTAGE AND CURRENT.

2.1 48V DC, 0.2A (with resistance and inductance)

2.2 Minimun : 1V DC  $10\mu$ A

## 3. ELECTRICAL PERFORMANCE

	PROPERT	Υ	7	EST CONDIT	TION		PE	RFORMAN	CE
3.1	Contact				2pole, 2throw				
	arrangeme	nt							
3.2	Contact	Measu	red at 1A, 5V I	OC or by ohm	meter allowing	g a small	Less than	<b>100m</b> Ω	
	resistance	e curre	nt at 1 KHz with	200gf					
3.3	Insulation	DC 50	0V is applied b	etween termir	nals and betwe	een	Greater than100MΩ		
	resistance	e termin	terminals and earth for 1minute ±5seconds.						
3.4	Voltage	AC 50	AC 500V (50-60Hz) is applied between terminals		No insulation defect shall be				
	proof	and be	and between terminals and earth for 1 minute.		observed.				
3.5	Bounce	Measu	red by lightly s	triking the cer	nter of the butt	on stem	Less than	10 sec	
		at a ra	te of 3 operation	ns / sec					
							APPD.	CHKD.	DSGE.
								-	A .
							1/4/6		Dian)
							1000	>	וייוק
PAGE	MARK	REVISION	DATE	APPD	CHKD	DSGE			

PRODUCT SPECIFICATIONS					
MODEL No.		HOOK SWITCH (MH2240)		PAGE 2/3	
4. MECH	HANICAL PERFO	DRMANCE			
	PROPERTY	TEST CONDITION	PE	ERFORMANCE	
4.1	Operating	A gradually increasing load is applied to the center	As per dra	awing	
	force	of the button stem			
4.2	Travel	A static force of 500gf is applied in one direction	As per drawing		
4.3	Arrangement of action		Spring feed-back		
4.4	Shock	An impact load of 30g is applied according to the method	The requi	rement in item 3	
	resistance	201, MIL-STD-202	shall be met		
4.5	Vibration	The test is conducted according to the method 201,	The requi	rement in item 3	
	resistance	MIL-STD-202	shall be satisfied without a		
			degradatio	on in both appearance	
5. WEAT	THER PROOF				
	PROPERTY	TEST CONDITION		ERFORMANCE	
5.1	Cold heat proof	After testing at -20±2 for 96hrs,the sample is allowed to stand under normal temperature and humidity conditions for 30 mim and measurement is performed within 30 min after that, Water drops should be wiped off	* Contact resistance : 200m  * Operating force : within +109 30% initial value.  * Insulation resistance :10MΩ n  * Withstanding voltage : 500V for I minute		
5.2	Dry heat proof	After testing at 85±2 for 96hrs, the the sample is allowed to stand under normal temperature for 30 min and measurement is performed within 30 min after that.			
5.3	Damp heat proof	After testing at 40±2 and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 30 min, and measurement is performed within 30 min after that.  Water drops should be wiped off.			

PRODUCT SPECIFICATIONS				
MODEL No.		HOOK SWITCH (MH2240)	PAGE	
	PROPERTY	TEST CONDITION	PI	3/3 ERFORMANCE
5.4	Life test	300,000 cycles without load 100,000 cycles with 0.2A 48V DC resistive load	* Operating 30% initial * Insulation	resistance :10MΩ min ling voltage : 500V AC
5.5	Thermal cycling	After test conducted under 5 cycles, the sample is allowed to stand under normal temperature and humidity conditions for for 1 hour, and the measurement is performed within 1 hour  +60 -10 -10 -10 -10 -10 -10 -10 -10 -10	<u> </u>	irement in item 2
6 Solder	ring conditions			
55,401	PROPERTY	TEST CONDITION	PI	ERFORMANCE
6.1	Auto dip soldering	* Flux built-up: mounting surface should not be coated with flax  * Preheating temperature: Ambient temperature of the soldered surface of PC bord 100 max  * Preheating time: 45 sec max  * Soldering temperature: 260 max  * Continuous dipping time: 5 sec max  * Number of soldering: 2 times max		- 1 <del></del>
6.2	Manual soldering	* Soldering temperature : 350 max  * Continuous soldering time : 3 sec max		

