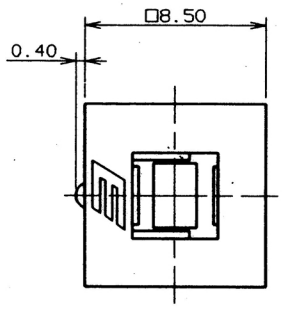
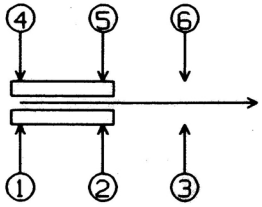
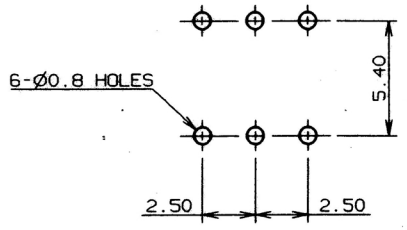
原图



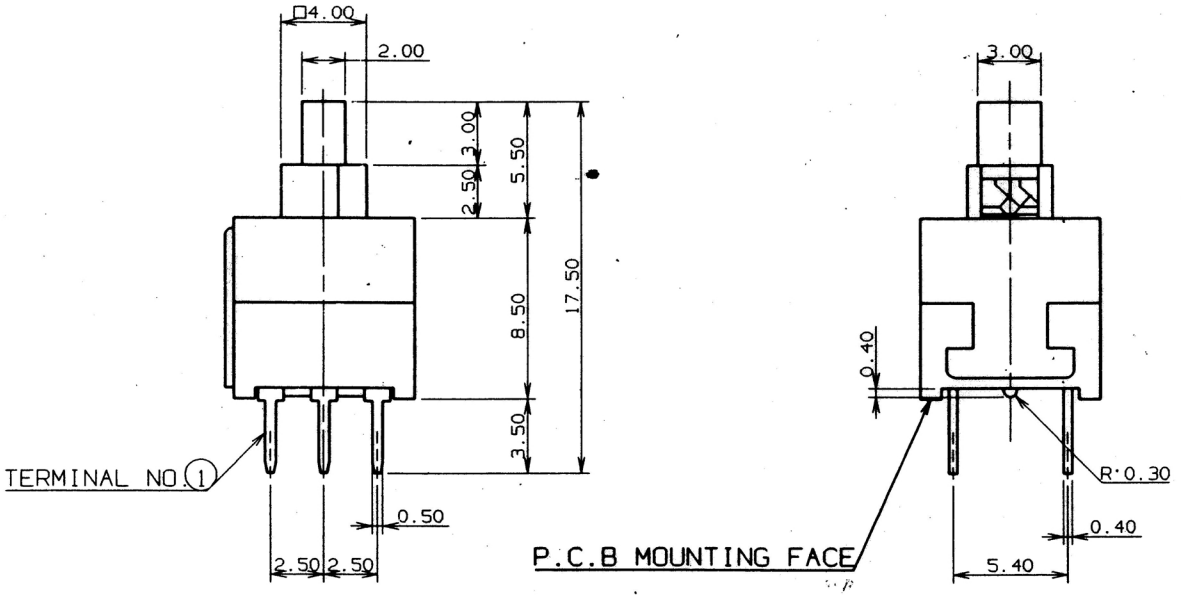
CIRCUIT DIAGRAM



MODEL	CODE No	O/MODE	PUSH COLOR	TRAVER	LOGO
YPS 2281 -	14172000	SELF LOCK	WHITE	FULL:2.5 LOCK:1.5	
YPS 2281G		SELF LOCK	WHITE	FULL:2.5 LOCK:1.5	
YPS 2281N	14182000	NON LOCK	BLUE	FULL:2.5	
YPS 2281V	14189000	NON LOCK (VOICE)	BLACK	FULL:2.5	
YPS 2281V0	14272000	SELF LOCK	~~BLACK~~ GRAY △1	FULL:2.5 LOCK:1.5	
EPS 2281	14172000	SELF LOCK	WHITE	FULL:2.5 LOCK:1.5	
EPS 2281N	14182000	NON LOCK	BLUE	FULL:2.5	



P.C.B MOUNTING HOLES DIMENSION



NOTE

△2 2Ro ±50

1. OPERATING FORCE : ~~180±50~~gf
2. TIMING :NON SHORTING
3. CIRCUIT :2C-2P
4. GENERAL TOLERANCE :±0.3
5. MANUFACTURING SPECIFICATION WOULD BE ACCORDANCE WITH JP0108

No.	PART NAME	Q'TY	MATERIAL	SIZE	TREAT.	REMARKS
	亚特联 YATELIAN					

NO.	DATE	NOTE	SIGN
△5			
△4			
△3			
△2	02.6.4	0.15 公差变更	
△1	99.1.20	COLOR 变更	

3RD ANGLE PROJECTION	UNIT m/m	SCALE 4 / 1	MODEL YPS,EPS 2281 SERIES
APPROVED	CHECKED	DESIGNED 99.3.16	DWG.NAME ASS'Y DIAGRAM
. .	. .		DWG.NO. CODE No

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	SPECIFICATION	Page : 1 / 3
	PUSH SWITCH	

1. GENERAL MATTERS

1.1 Application : This specification is applied to low current circuit push switch for eletronic equipment.

1.2 Operating Temperature Range : -10℃ ~ 60℃

⚠1 1.3 Storage temperature range : -30 ~ 80℃. However, 96 hours maximum for continuous storage over a range -20 ~ -30℃ and a range 70 ~ 80℃.

1.4 Test Condition : The standard test conditions shall be 5℃~ 35℃ in temperature, 45 ~ 85% RH and 860~1060mbar in atmospheric pressure. Should any doubt arise in judgment, tests shall be conducted at 20±2℃, 65±5% RH and 860~1060mbar.

2. RATED VOLTAGE AND CURRENT

DC 30V 0.1A(with resistance and inductance)

3. ELECTRIC PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
3.1	Contact Resistance	Measured at 1KHz ± 200Hz (max 20mV, max 50mA) or at DC 5V 1A	*50mΩ max.
3.2	Insulation Resistance	DC 500V is applied between terminals and between terminals and earth for 1minute ±5 seconds.	*100MΩ min.
3.3	Withstand Voltage	AC 500V (50-60Hz) is applied between terminals and between terminals and earth for 1minute.	*No insulation defect shall be observed.

4. MECHANICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
4.1	Operating Force	A static load shall be applied to the tip of actuator in operating direction.	*As per individual manufactured drawing.
4.2	Terminal Strength	A static force of 500gf is applied in one direction to the tip of the terminal for 1minute. (once per terminal)	*Shall be free falling off or breakage of terminal and breakage of substrate as well. *Bent terminal may be acceptable. *The electrical performance requirement specified in item 3 shall be met.

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RevNo	Revision note	DATE	CHKD	DSGD				

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4. MECHANICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
4.3	Lever Strength	*A static force of 1Kgf shall be applied to the direction of operation for 15sec. *A static force of 0.5Kgf shall be applied in the direction of pulling for 15sec. (for free state) *A static force of 1Kgf shall be applied to the vertical direction of operation at the tip of the lever for 15sec.	*Shall be free from pronounced wobble, bending and other mechanical abnormalities.
4.4	Lever Deviation	A static load of 100gf is vertically applied to the tip of the operating part.	
4.5	Solderability	The test is conducted under the following condition. Soldering Temperature : 260±5℃ Dipping Time : 3±0.5 sec	*Over 90% of the immersed part shall be covered with solder.
4.6	Soldering Heat Resistance	The test is conducted under the following condition. Temperature and dipping time Dip Soldering: Temperature (℃) 260±5, Time (sec) 5±1 Manual Soldering: Temperature (℃) 350±10, Time (sec) 3	*Shall be free from a remarkable change in appearance. *The electrical performance requirement specified in item 3 shall be met.

5. DURABILITY

	PROPERTY	TEST CONDITIONS	PERFORMANCE
5.1	Mechanical Operation	10,000cycles operation at the rate of 15~30cycles/minute without load shall be done.	*Contact Resistance : 500mΩ max. *Insulation Resistance : 10MΩ min. *Dielectric Strength : No dielectric breakdown shall take place when AC 500V is applied for 1 minute. *Operating Force : within ±10% of the initial value. *No abnormality shall be recognized in appearance and structure.
5.2	Mechanical Operation with electrical load	10,000cycles operation at the rate of 15~30cycles/minute with load DC 30V 0.1A	

					APPD	CHKD	DSGD	TITLE YPS2281V
								DOCUMENT NO.
RevNo	Revision note	DATE	CHKD	DSGD				

6. WEATHER PROOF

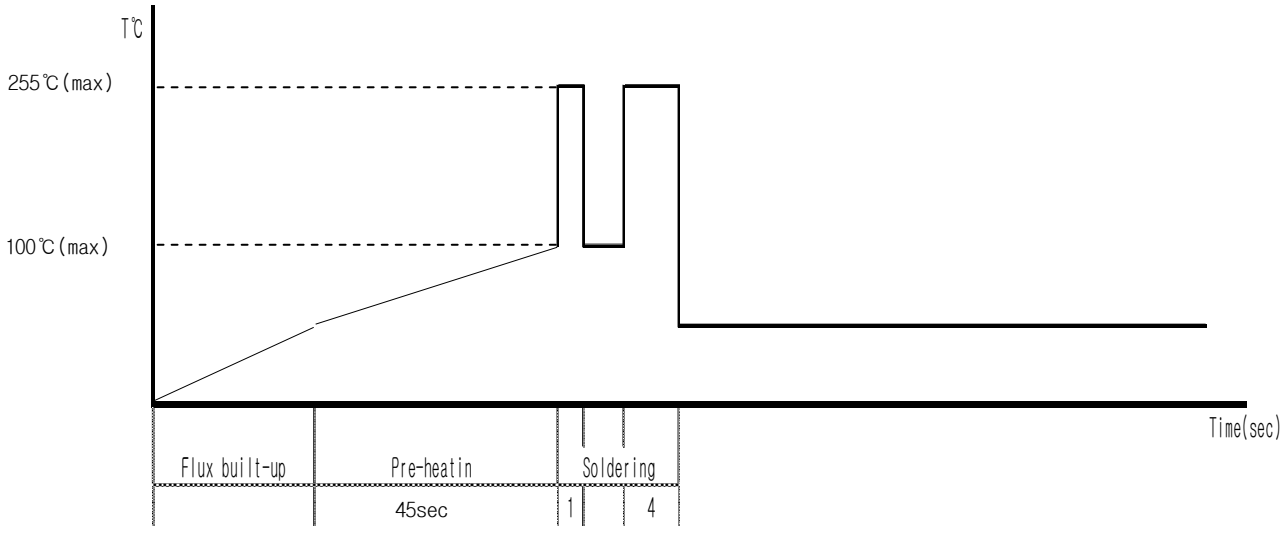
	PROPERTY	TEST CONDITIONS	PERFORMANCE
6.1	Cold Heat Proof	After testing at −30±2℃ for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour and measurement is performed within 1 hour after that. Water drops should be wiped off.	*Contact Resistance : 500mΩ max. *Insulation Resistance : 10MΩ min. *Dielectric strength : No dielectric breakdown shall take place, when AC 500V is applied for 1 minute. *Operating force : Within ±10% of the initial value. *No abnormality shall be recognized in appearance and structure.
6.2	Dry Heat Proof	After testing at 85±2℃ for 96hrs, the sample is allowed to stand under normal temperature for 1 hour and measurement is performed within 1hour after that.	
6.3	Damp Heat Proof	After testing at 60±2℃ and 90~95% in relative humidity for 96hrs, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is performed within 1 hour after that. Water drops should be wiped off.	

7. AUTOMATIC SOLDERING CONDITIONS

7.1 Preheat ---------- 100℃ max, 45 (sec)

7.2 Peak temperature ----- 255℃ max

7.3 Soldering area temperature ------ 255℃ max, 1 ~ 4 (sec)



< Temperature profile >

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