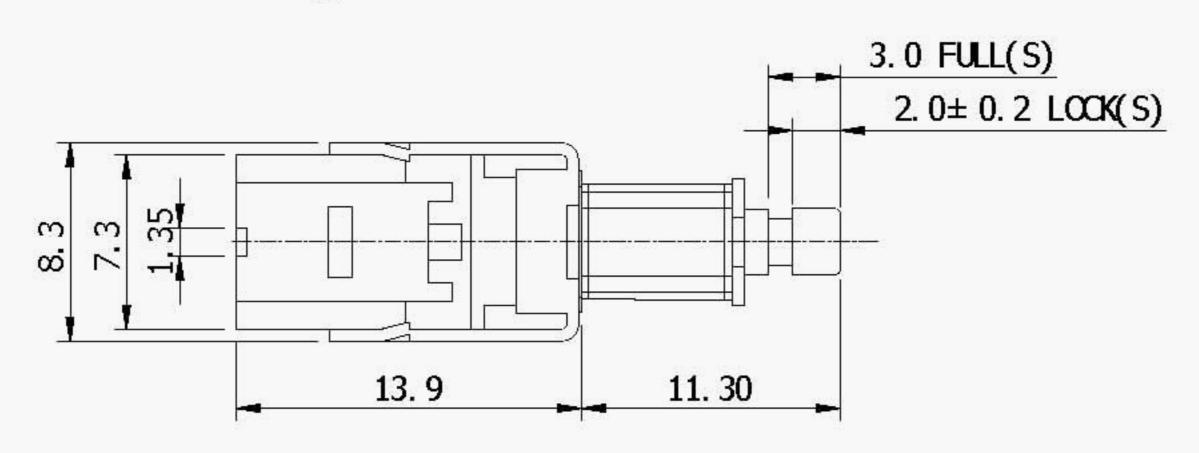
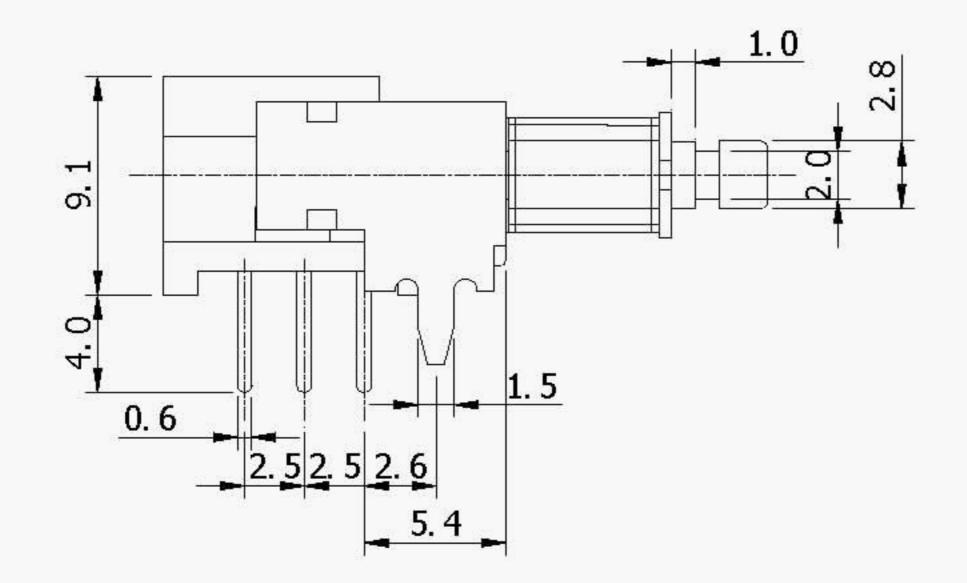
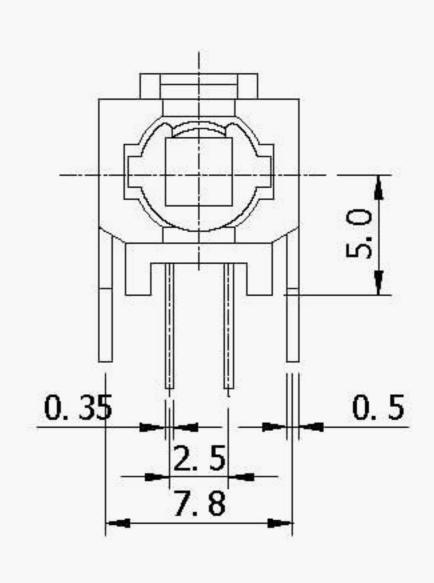
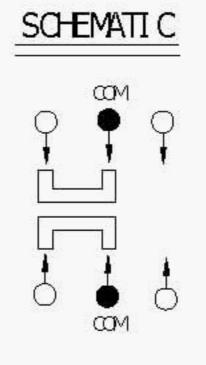
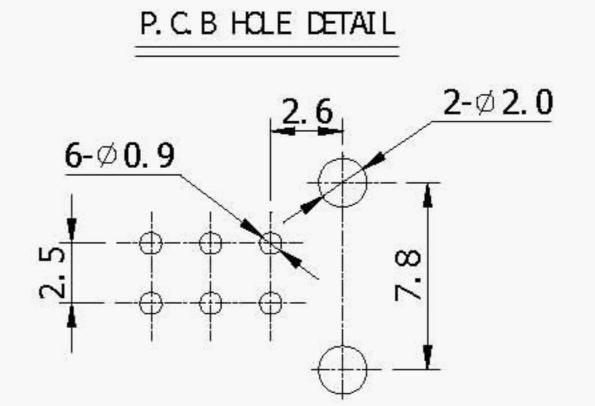
SWEETA SENSE, RULE, TECHNOLOGY,	喜威達企業股份有限公司							
SWITCH TYPE	M ni at ur	e push button Switches	MODEL NO.	SP	A-120L-22G			
1. Functional spec.								
1.1 Rated Volta	ge	DC30A	1.6 Free Positi	on				
1.2 Rated Curre	nt	0. 1A	1.7 Operating	Position				
1.3 Contact Resistance		≤ 50nΩ (Initial value)	1.8 Position Travel		2.0± 0.2mm			
1.4 Operating Force		230± 50gf	1.9 Return Force					
1.5 Bounce Tim	e		1.10					
2.Reliable Ratir	ıg	1 77.5	Y.					
2.1 Mechanical	Life	30, 000 CYCLES	2.5 Soldering Temper		See sheet 5			
2.2 Electrical Life		10,000 CYCLES	2.6 Operating Temper		-10° C - +60° C			
2.3 Insulation Resistance		≥ 100MΩ DC250V(Initial value)	2.7 Shi ppi ng Temper		<85%RH			
2.4 Withstand Voltage		AC250V 1 minute(Initial value)	2.8 Ambient Humidity Used					
3. Dimension Drawing								







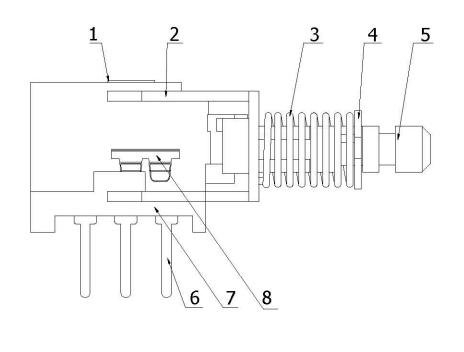




Revision	Description		Date	Revisor
Drawing No.		A/ 0	Tolerance	± 0.2
Drawing Model.	SPECIFICATION OF STANDARD TYPE		Unit	mn
Prepared	Reviewed Approved		Effective date	20060519

SPA-1201-22C		E PUSH BUTTON les (PS909)	Issuance date		20051101		
Document No.		DIC	/PE909-012	Edition	В	Page	Page 1 of 5
NO.	Part	Name	Q'TY	Generic C	lass	S	GS report No.
1	C	ase	1	PBT+GF30%(N)		GZ06	501001875/CHEM
2	2 Iron bracket		1	SPCC		GZSCR051186928/LP	
3	Spring		1	SUS304		GZ0603039055/CHEM	
4	R	ing	1	SPCC		GZSCR051186928/LP	
5	St	em	1	POM		CE/2006/42764	
6	6 Terminal		6	C2680		CE/2005/B2320	
7	Base		1	PA66		С	E/2005/A1917
8	Clip		2	C5210		GZS	CR050746889/LP

Structure chart:



SPA-120L-22G	MINIATURE PUSH BUTTON Switches (PS909)	Issuance da	te:	20	20051101 Page Page 2 of 5	
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1. General:

1.1 Switch rating: DC 30V, 0.1A 1.2Operating temperature range $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 1.3 Preservative temperature range $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$

1.4 Appearance. Markings and dimensions Refer to individual product drawing

1.5 Standard conditions

Unless otherwise specified, the test and measurements shall be carried out as follows:

Ambient temperature: 5~35°C Relative humidity: 45~85% Air pressure: 86~106kpa

However, if doubt arises on the decision based on the measured values under the above mentioned conditions ,the following conditions shall be employed.

Ambient temperature : $20\sim2^{\circ}C$ Relative humidity : $60\pm5\%$ RH

Air pressure: 86~106kpa

2.Performance

2.1 Electrical characteristics

Items Te			Test conditions			Criteria		
2.1.1	Contact resistanc	iti	Applying a static load twice the operating force to the stem, measurements shall be made between the terminals. Measurement shall be made with a contact resistance meter for $2m\Omega$ precision under the condition which a voltage of DC 5V and a current of 0.1A shall be applied between the terminals.					50mΩ max
2.1.2	Insulatio resistanc	the terminal and the metal frame for one minute. Measurement shall be					100MΩ min	
2.1.3	Dielectric withstand in voltage AC 250V(50Hz or 60Hz) shall be applied across terminals and frame for one minute.				No damage to parts arcing or breakdown etc.			
PAGE	MARK	REV	ISION	DATE	DESIGN	CHECK		APPROVAL

SPA-120L-22G		MINIATURE PUSH BUTTON Switches (PS909)	Issuance date	:		200511	01
Docum	ent No.	DIC/PE909-012	DIC/PE909-012 Edition B Page				Page 3 of 5
	Items	Test	conditions	·		C	'riteria
3.Mech	anical characteristi	ics				8	
3.1.1	Operation force Placing the switch such that the direction of switch operation is side, and then gradually increasing the load applied to the stem, the maximum load for the stem to come to operating position shall be measured.				stem, the		o individual rawing.
3.1.2	Terminal strength	A static load of 500gf shall be 30 sec. in any direction.	A static load of 500gf shall be applied to the tip of the terminal for 30 sec. in any direction.				
Displacement of actuator(Knob) A static load of 1kgf shall be applied to the terminal for 15 Sec. In any direction.						serious de	r shall have no eformation and n is normally.
4.Clima	tic characteristics						
4.1	Gold test	 (1) Temperature: -30 ± 2°C (2) Duration of test: 96 hours (3) Take off a drop water (4) Standard condition after test 	st : 1 hour			After test:	
4.2	Heat test	 (1) Temperature: 80±2°C (2) Duration of test: 96 hour (3) Standard conditions after te 	2 -				1Ω max to 2.1.3 and 3.1.2 shall be
4.3	Humidity test	 (1) Temperature :60±2°C (2) Relative humidity : 90~959 (3) Duration of test : 96 hours Take off a drop water Standard 		test: 1 hou	r		
5. solde	ring characteristics	S				2	
5.1	Hand soldering	Use a soldering iron of approximately 3 seconds 1time			t 380 °C	of solder minimum surface be There sha in appear	niform coating r shall cover a n of 90% of the eing immersed. Il be no defects rance or in the cal functions.

SPA-120L-22G		100000000000000000000000000000000000000	MINIATURE PUSH BUTTON Switches (PS909)	Issuance date:	20	0051101
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	Items		Test condition	ons	C	riteria
6. Dural	bility characteris	tic				
6.1	Mechanic al life	(2)	Without loading Operating speed: 60 cycles Push force: maximum value twice Life: 30,000 cycles		1 ohm (2)Insulati	resistance: Max. on resistance: nm Min.
6.2	Electrical life	(2) (3)	which the load of 0.1A Do Operating speed: 30 cycles Push force: maximum val twice Life: 10,000cycles	(3) Bounce: 5m sec. Max. (4) Withstand voltage: AC250V, 1 minute (5) Operating force: 30% of initial value (6) There shall be redefects in appearance or in the mechanical functions		
7.Salt 1	Mist				1	
7.1	Salt Mist	Sal The Tes The The (1)	st equipment: NSS It Solution: $5\pm1\%$ (Solders It e PH of salt: $6.5\sim7.2$ st temperature: $35\pm2\%$ st pressure: 1 Kgf/cm*cm e temperature of pressure bar e slide switch shall be checked Purge of the product Duration: 8 hours Purge of the product with and use wind gun drying it.	rrel : 47±2℃ ed after following test :	part. (uninclude angle and line)	kable corrosion cognized in metal e sideline corner pressing border

- 8.1 Package boxes or package bags should be attached labels or identifiers of Model No., Quantity and Quality Pursuing No.
- 8.2 There shall be quality records of inspection and test in package boxed.

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9. Application Notes:

- 9.1 Avoid storing the products in a place at high temperature, high humidity and in corrosive gases.
- 9.2 Avoid excessive force when inserting into P.C.B so as to avoid deformation of terminals.
- 9.3 Influence for the characteristics by something dust or foreign articles. There is a possibility something dust or foreign articles put into click of brush plate and it should cause abnormal rotation feeling.
- 10. Incoming inspection declaring:
- 10.1 You must comply with the following principles in the process of the incoming inspecting and using our products, if not, we won't be liable for any damages from it.
- 10.2 The requirement of the incoming inspection must meet the product's specification that have been affirmed and signed by you. If the following things appear in the process of the incoming inspection, the use is restricted, please feed back us in time; we will take back of all.
- 10.3 The products that are attached or stickled by the unqualified labels;
- 10.4 In the process of the incoming inspection, the following main function parameters must be checked and they must meet the specification. If the sum the badness rate is more than 1% in the process, the use is restricted, please feedback us in time, we will take back of all.
 - (1) Operating Force;
- (2) Operating Position;
- (3) Initial Contact Resistance;
- (4) Soldering ability;
- (5) Soldering temperature;
- (6) Action of function;
- 10.5 If the serious packaging disrepair of products appears in the process of the incoming inspection, please refuse accepting them and return them to us directly.
- 10.6 Operating strength: the max pressing force is 3Kgf in the side direction with the up-surface of stem; the max pulling force is 3Kgf.the badness product's damage and function destroying for above all, we won't be liable for it.
- 10.7 For switches is a multi-function parameters part in our company, which are assembled by many components, the max permitting badness rate is 500PPM in producing process. If the damages are for our producing process badness aim, we won't be liable for it.
- 10.8 If badness rate of the main function parameters which is more than 500PPM or the sum of rate is more than 1500PPM appears in your producing process, please stop using them immediately and feed back us to do with it in time.
- 10.9 If your incoming inspection is careless and it arose that the badness rate of your producing process is more than 1%, we won't be liable for the damage.
- 10.10 DIGCU ELECTRONIC CO.,LTD. of DICGU ENTERPRISE CO.,LTD. should save this product without notice right when Reliable ability, action function, frame or designed is changed.