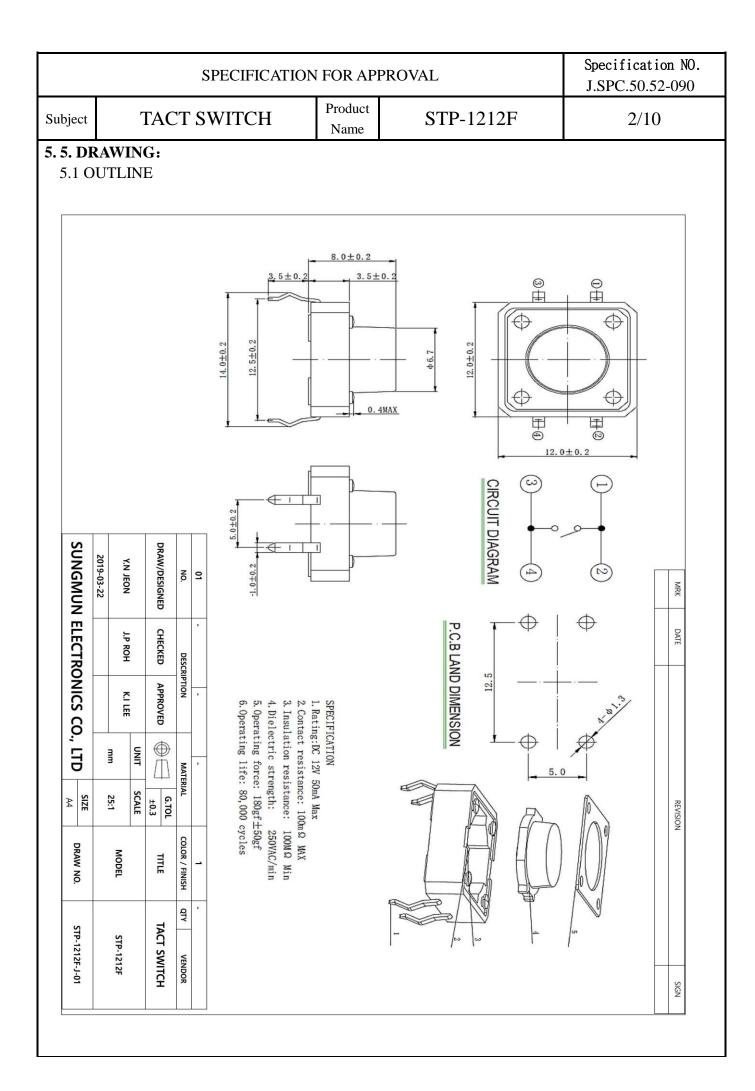
DATA SHEET
SUNGMUN CODE : <u>STP-1212F</u> DESCRIPTION : <u>TACT SWITCH</u>
SUNGMUN ELECTRONICS CO., LTD.
Address301-302,Bucheon Technopark 345, Seokcheon-ro, Ojeong-gu Bucheon-si, Gyeonggi-do, KoreaTEL.+82-32-328-1941~4FAX+82-32-328-1945E-mailsungmun@sungmun.co.krWebsitewww.sungmun.com

	Specification NO. J.SPC.50.52-090						
Subject	TACT SV	VITCH	Product Name	STP-1212F	1/10		
1. Gener	al Specification	n					
	ope This specifica y top(TACT SWITC		-	s for single key switches CT).	s which have no		
1.2 Op	perating Temperatu -40 to+8	ure Range 5℃(normal hu	ımidity, norm	al press.)			
1.3 Sto	orage Temperature -40 to+85	a Range 5℃(normal hu	midity, norma	al press.)			
1.4 Test ConditionsTests and measurements shall be made in the following standard conditions unless otherwise specified:Normal temperature (temperature 5 to 35° C)Normal humidity (relative humidity 45 to85%)Normal pressure (pressure 860 to 1060 mbars)In case any question arises from the judgment made, tests shall be conducted in the following conditions:Temperature $(20 \pm 2^{\circ}$ C)Relative humidity(65 ± 5%)Pressure(860 to 1060 mbars)							
2. Туре (Of Actuation						
		Tactile fee	edback				
3. Conta	ct Arrangemer	nt <u>1</u> poles_	<u>1</u> throws				
		(Details of c	contact arrang	ement are given in the a	ssembly drawings.)		
4. Maxin	num Ratings	DC <u>12</u>	V50	_mA			
	DC <u>1</u> V <u>10</u> µ A						

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	Specification NO. J.SPC.50.52-090					
Subject	TACT S	TACT SWITCHProduct NameSTP-1212F			3/10	
				5	4 3 1 2	
NO	PART NAME	QT'Y	MATERIA	AL	PLATING	REMARKS
1	BASE	1	PA66			
2	TERMINAL	1	BRASS		Ag plating	
3	CONTACT	1	PHOSPHOR B	RONZE	Ag plating	
4	COVER	1	COLD PRES STEEL PLA			
5	STEM	1	PA66			
6						
7						
8						

		Specification NO. J.SPC.50.52-090			
Subject	ТАСТ	SWITCH	Product Name	STP-1212F	4/10
	eral Specific ctrical perform				
	Item	Te	st Condit	ion	Requirements
6.1.1	Contact Resistance	Applying static loa the center of the sta made with a 1 kHz resistance meter.	em, measure	$100 \mathrm{m} \Omega$ BELOW	
6.1.2	Insulation Resistance	Measurements sha application of DC <u>1</u> terminals and betw frame for one minu	<u>00</u> V potenti een individu	100M Ω MORE THAN	
6.1.3	Dielectric withstanding voltage	AC <u>250 V</u> (50Hz or between terminals terminals and fram	and between	There shall be no breakdown.	
6.1.4	Bounce	Lightly striking the encountered in nor sec), Bounce shall be tes Swit DC3-5V	rmal use (3 sted when "G	5mS BELOW	

	ç	Specification NO. J.SPC.50.52-090							
Subject	TACT S	WITCH	Product Name	STP-1212F	5/10				
<u>6.2 Mec</u>	6.2 Mechanical performance								
	Item		Test Condi	tion	Requirements				
6.2.1	Actuating Force	switch opera increase the stem, the ma	itch such that th ation is vertical a load applied to aximum load req stop shall be me	<u>180</u> ± <u>50</u> gf					
6.2.2	Travel	switch opera static load tw center of the	itch such that th tion is vertical a vice the actuatin stem, the travel e to a stop shall	<u>0.25</u> ± <u>0.10</u> mm					
6.2.3	Return Force	direction of upon depres whole travel	switch operations of the stead	alled such that the on is vertical and, m in its center the orce of the stem to all be measured.	<u>30</u> gf min				
6.2.4	Static Strength	switch opera kgf shall be			There shall be no sign of damage mechanically and electrically.				

		SPECIFICATI	ON FOR APPF	ROVAL	Specification NO. J.SPC.50.52-090				
Subject	TACT	T SWITCH	Product Name	STP-1212F	6/10				
6.3 Dur	5.3 Durability								
	Item		Test Condit	ion	Requirements				
6.3.1	Operating Life	Measurements s forth below: (1)DC 5V 5mA (2)Rate of opera (3)Depression: (4)Cycles of opera	resistive load. tion:2 to 3 ope 270 gf	Contact resistance: 200 m Ω Max. Insulation resistance : 50 M Ω Min. Actuating force: + 30 % or- 30% of initial force. Item 6.1.3 Item 6. 2.2					
6.3.2	Moisture Resistance	Following the te be left in nor conditions for of made: (1) Temperature (2) Relative hun (3) Time: 96 hou Water drops sha	y Contact resistance: 200						
6.3.3	Low Temperature Resistance	Following the te be left in not conditions for o made: (1) Temperature (2) Time: 96 h Water drops sha	y Contact resistance: 200 m Q Max						
6.3.4	Heat Resistance	Following the te be left in nor conditions for o made: (1) Temperature (2) Time: 96 h	y m Ω Max.						

	Specification NO. J.SPC.50.52-090			
TACT SWITCHProduct NameSTP-1212F				7/10
Item		Test Condi	tion	Requirements
Change of Temperature	Sample shall the humidity Condition measurements drops shall be	be Placed in Nor ditions for one h are made. Duri removed. $E^{Ie} \longrightarrow F^{IE} he $	rmal temperature and nour before ng this test, water	Contact resistance: 200 m Ω Max. Insulation resistance : 50 M Ω Min. Item 6.1.3 $\$ 6.1.4 Item 6. 2.1~6.2.3
Vibration Resistance	forth below: (1)Range of os (2)Amplitude, (3)Cycle of sw minute, approx (4)Mode of uniform sweep (5)Direction o Three mutu including the o	scillation: 10 to pk-to-pk:1.5 m veep: 10-55-10F x. sweep: Logarit o. f oscillation: ally perpend direction of sten	55Hz n Iz in one thmically sweep or dicular directions, n travel.	Item 6.1 Item 6. 2.1 、6.2.2
	Item Change of Temperature	TACT SWITCH Item Following ten Sample shall be humidity Commeasurements drops shall be for shal	TACT SWITCH Product Name Item Test Condi Following ten cycles of high to Sample shall be Placed in Non humidity Conditions for one F measurements are made. Duri drops shall be removed. Change of Temperature Image: Construction of the state of	TACT SWITCHNameSTP-1212FItemTest ConditionFollowing ten cycles of high temperature test . The Sample shall be Placed in Normal temperature and humidity Conditions for one hour before measurements are made. During this test, water drops shall be removed.Change of Temperature $\begin{pmatrix} C \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$

		Specification NO. J.SPC.50.52-090					
Subject	t TACT SWITCH Pr			STP-1212F	8/10		
Item Test Condi			dition	Requirements			
6.3.7	6.3.7Measurements shall be made following the test set forth below: (1)Acceleration: 80g (2)Cycles of test : 3 cycles each in 6directions, for 				Item 6.1 Item 6. 2.1、6.2.2		
7. Weld	7. Welding condition:						

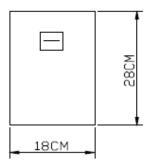
	Item	Recommended conditions
7.1	Hand soldering	Please practice according to bellow conditions: (1) Soldering temperature :≤350°C (2) Continuous soldering time:≤3 S (3)Capacity of soldering iron:≤60 W
7.2	Wave soldering	Type solder according to the following conditions surface of product temperature (C) 2000 1800 15

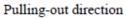
	SPECIFICATION	Specification NO. J.SPC.50.52-090		
Subject	TACT SWITCH	Product Name	STP-1212F	9/10
3. Othe	er Precautions			
(1) H	Following the soldering process, do	o not try to cl	ean the switch with a	solvent or the like.
(2) \$	Safeguard the switch assembly aga	inst flux pene	etration from its topsic	le.
	Please have the products keep in cl lelivering the goods at most.	ose status and	d the storage time is 9	0 days guaranty after

	SPECIFICATION FOR APPROVAL						
Subject	TACT SWITCH	STP-1212F	10/10				
9.]	 9. General 9.1 Scope This specification covers the requirements for 12.0×12.0 series type of tact switches. 9.2 Packaging Material 						
Γ	ITEM		SUBSTANCE				
	CARTON BOX CORRUGATED PAPER						
	PACKING CTN	R.					
	PLASTIC BAG NORMAL PLASTIC						

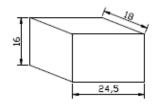
9.3 Packing Unit

- 9.3.1 The capacity of packing ctn.
 - Every carton box contains 20 packing box at most.
- 9.3.2 Every packing carton contains500 pcs goods at most.
- 9.4 Every plastic bag contains 500 pcs

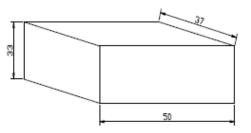




9.5 The shape and dimension of packing carton



(PACKING CARTON)



(CARTEN BEX)