

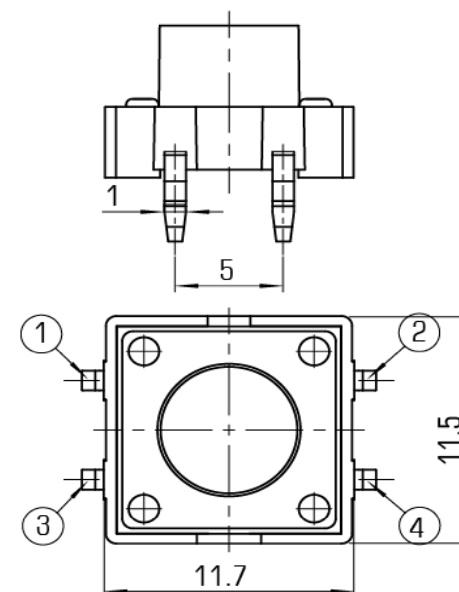
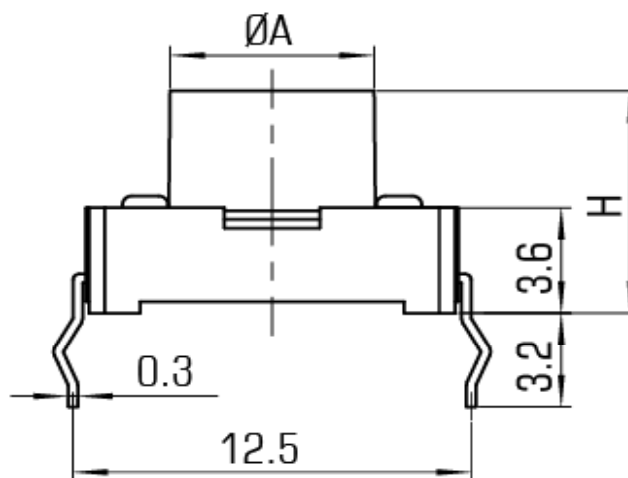
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SPECIFICATION:

Current Rating:	DC12V / 50mA
Insulator Resistance:	100 Mega Ω min.
Contact Resistance:	100 m Ω max.
Travel:	0,25 / +/- 0,1mm
Operating Temperature:	-40°C to +105°C
Lifetime:	look order code
Operating Force:	look order code

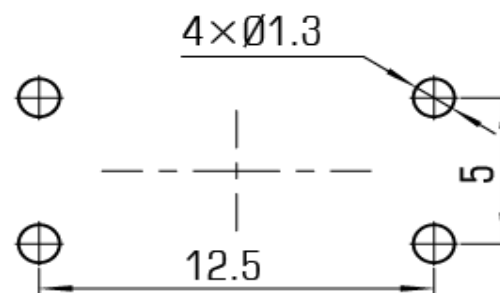
Drawing



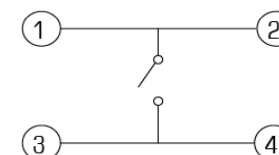
Common Specifications

Life Test	50/80 Cycles / Min with 5VDC 5mA Resistive load Cycles of Operation: As per individual Specifications
Dry Heat Proof	80°C +/- 2°C for 96hours after Test Kept in Normal Condition for 30Min.
Moisture Resistance	60°C +/- 2°C 90~95% RH for 96 Hours After Test, Kept in Normal Condition for 30 Minutes
Cold Proof	30°C for 96 Hours After Test Kept in Normal Condition for 30 Minutes.
Operating Force	If refers to the maximum load at the time of switching over of the contacts. (Point A in the figure)
Travel	This refers to the state of repeating the contact opening or closing momentarily at the time of the changeover of the switch to ON or OFF. Longer duration of this state

PCB Layout



Circuit Diagram



TACT SWITCH THT
12,0x12,0mm

Part No.: **Q11032**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	15.12.2021
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 8

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Dimension

Order Code	H (mm)	ØA (mm)
A01	4,3	6,4
A02	4,5	6,4
A03	5,0	6,4
A04	5,5	6,4
A05	6,0	6,4
A06	6,5	6,2
A07	7,0	6,3
A08	7,5	6,2
A09	7,7	6,2
A10	8,0	6,3
A11	8,5	6,3
A12	9,0	6,2
A13	9,5	6,2
A14	10,0	6,3
A15	10,5	6,2
A16	11,0	6,2
A17	11,5	6,2
A18	12,0	6,2
A19	12,5	6,2
A20	13,0	6,2
A21	14,0	6,2
A22	15,0	6,2
A23	15,5	6,2
A24	17,0	6,1
A25	18,0	6,1
A26	19,7	6,1
A27	21,0	6,1

Order Code	H (mm)	ØA (mm)
A28		
A29		
A30		
A31		
A32		
A33		
A34		
A35		
A36		
A37		
A38		
A39		
A40		
A41		
A42		
A43		
A44		
A45		
A46		
A47		
A48		
A49		
A50		
A51		
A52		
A53		
A54		

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Ordering Informations

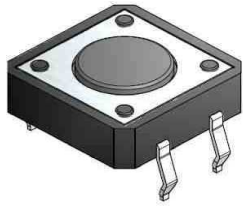
Serie	Total (H)	Function	Operating Force	Function	Electrical life	Function	ROHS	Packing		
Q11032	A01	N	131	N	304	N	R	BU		

Axx = look order Code Axx	N = No function	131 = 130gr	N = No function	304 = 300000 cycles of 130gr. O-Force	N = No function	N = non ROHS	BU = Bulk Ware 1000PCS
		181 = 180gr		304 = 300000 cycles of 180gr. O-Force			
		251 = 250gr		105 = 1.000.000 cycles of 100gr. O-Force			

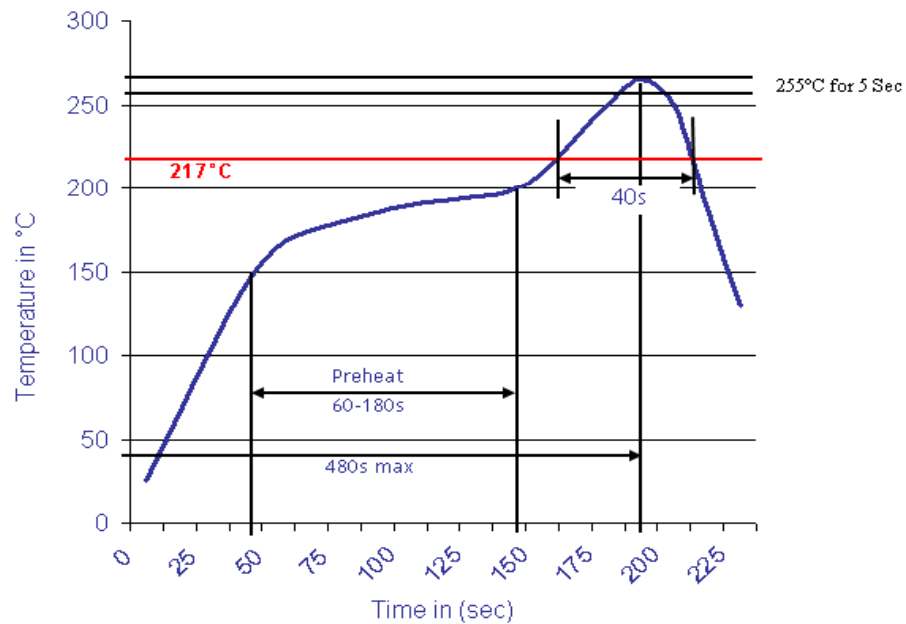
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Soldering Profile for Lead Free Soldering

Classification Reflow Profile (JEDEC J-STD-020C)


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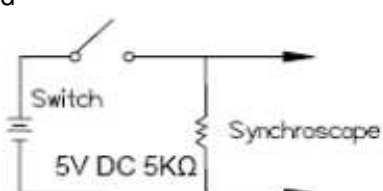
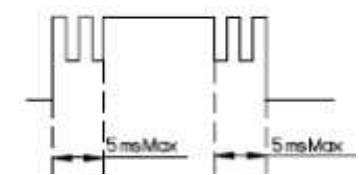


Test Sequence

Appearance

Item	Description	Test Conditions	Requirements
1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.

Electric Performance

Item	Description	Test Conditions	Requirements
1	Contact Resistance	Applying a static load 1.5 - 2 times the operating force to the center of the stem, measurements shall be made with a 1 kHz small current contact resistance meter.	100 mΩ max
2	Insulation Resistance	Measurements shall be made following application of 500 V DC potential across terminals and cover for 1 minute ± 5 seconds	100 MΩ min
3	Capacitance	1 MHz ± 10 kHz	5 pf max
4	Bounce	3 to 4 operations at a rate of 1 cycles per second 	5 m seconds max 

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Test Sequence

Mechanical Performance

Item	Description	Test Conditions	Requirements															
1	Operating Force	Applied in the direction of operation 	<table><tr><td>O</td><td>N</td><td>R</td><td>S</td><td>Y</td></tr><tr><td>F</td><td>160g</td><td>260g</td><td>320g</td><td>520g</td></tr><tr><td></td><td>± 50g</td><td>± 50g</td><td>± 80g</td><td>± 130g</td></tr></table>	O	N	R	S	Y	F	160g	260g	320g	520g		± 50g	± 50g	± 80g	± 130g
O	N	R	S	Y														
F	160g	260g	320g	520g														
	± 50g	± 50g	± 80g	± 130g														
2	Stroke	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the stem, the stroke distance for the stem to come to a stop shall be measured.	0.35 mm ± 0.1 mm															
3	Stop Strength	Placing the switch such that the direction of switch operation is vertical, a static load of 3 kgf (29.4N) shall be applied in the direction of stem operation for a period of 15 seconds	1) As shown in item 4 ~ 7 2) Contact Resistance: 200mΩ Max 3) Insulation Resistance: 10MΩ min															
4	Vibration	Shall be vibrated in accordance with Method 201A of MIL-STD-202F 1) Frequency: 10-55-10Hz in 1-min/cycle. 2) Direction: 3 vertical directions including the directions of operation . 3) Test time: 2 hours each direction 4) Swing distance=1.5mm	1) As shown in item 4 ~ 7 2) Contact Resistance: 200mΩ Max 3) Insulation Resistance: 10MΩ min															

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Test Sequence

Mechanical Performance

Item	Description	Test Conditions	Requirements
5	Shock	Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F 1) Acceleration; 50G 2) Action time: 11±1m seconds 3) Testing Direction: 6 sides 4) Test Cycle: 3 times in each direction	1) As shown in item 4 ~ 7 2) Contact Resistance: 200mΩ Max 3) Insulation Resistance: 10MΩ min
6	Solderability	1) Through Hole Soldering Temperature: 245°C ±3°C Lead-Free solder: M705E JIS Z 3282 A (Tin 96.5%, Silver 3%, Copper 0.5%) 2) Flux: 5 ~ 10 sec 3) Duration of solder Immersion: 5±1 sec	No anti-soldering and the coverage of dipping into solder must more than 66% was requested.

Weatherproof

Item	Description	Test Conditions	Requirements
2	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: 1) Temperature: -25 ±3°C 2) Time: 96 hours	1) As shown in item 4 ~ 7 2) Contact Resistance: 200mΩ Max 3) Insulation Resistance: 10MΩ min

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Test Sequence

Durability

Item	Description	Test Conditions	Requirements
1	Operating Life	<p>Measurements shall be made following the test forth below:</p> <ul style="list-style-type: none"> - 5 mA,5 VDC resistive load - Applying a static load the operating force to the center of the stem in the direction of operation. Static Load = OF Max - Cycle of Operation: 200,000 cycle's Min. For 100,160gf 100,000 cycle's Min. For 260gf 50,000 cycle's Min. For 320,520gf 	<ul style="list-style-type: none"> - As shown in item 4 ~ 5 - Operating force: $\pm 50\%$ of initial force. - Contact Resistance: 10Ω Max - Insulation Resistance: 10MΩ Min - Bounce: 10 m seconds Max

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