



DATA SHEET

THT Tact Switch w. LCD Display 64x32 pixel

Serie: Q33002

**THT Tact Switch w. LCD
Display 64x32 pixel**

Serie No.: **Q33002**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	28.04.2025
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 8	

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Technical Informations

Feature -

FSTN LCD display resolution: 64*32 pixels
view size: 0.9"
SPST, momentary function

Application -

audio / video switchers
instrumentation
telecommunication
broadcast system
security system

Switch Specifications

POLE - POSITION	OFF - <ON> for Momentary Type , SPST
CONTACT RATING	100mA 12V DC
CONTACT RESISTANCE	200 Ω MAX.
INSULATION RESISTANCE	100 MΩ MIN. 500 V DC
DIELECTRIC STRENGTH	Breakdown is not Allowable ; 500 V AC for 1 Minute
OPERATING FORCE	200 ± 100 gf
OPERATING LIFE	1,000,000 cycles
OPERATING TEMPERATURE RANGE	-10°C ~ 60°C
TOTAL TRAVEL	2.0 ± 0.2 mm

										THT Tact Switch w. LCD Display 64x32 pixel
Tolerances unless otherwise specified (mm)										
X X.X X.XX x.xxx Angle										
± ± ± ± ±3°										
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DISPLAY LCD ELECTRICAL CHARACTERITICS

ITEM	CHARACTERISTICS	Unit
LCD type	FSTN / Transflective / Positive	
Pixels	64 * 32	Dot
View area	17.8 * 13.0	mm ²
Dots size	0.235 * 0.335	mm ²
Dots pitch	0.25 * 0.35	mm ²
Viewing angle	6 O'clock	
Operating temperature	-10 to 70	°C
Storage temperature	-20 to 80	°C
Duty ratio	1/32	Duty
Bias	1/6	Bias

COLOR : Over 32K color of backlight

Dominant Wavelength :

Device	MIN.	TYP.	MAX.	Units	Test Conditions
Hyper RED	620	640	650	mm	IF=20mA
GREEN	513	515	537		
BLUE	458	468	477		

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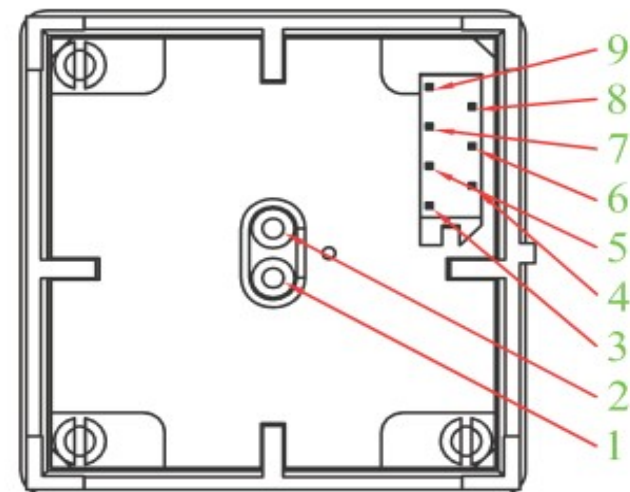
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PIN STRUCTURE

PIN NO.	SYMBOL	NAME	FUNCTION
1	SW1	Switch Pin	Normally open
2	SW2	Switch Pin	Normally open
3	ALARM	ALARM	Button is pushed
4	SCS	Slave Control Select	
5	SDO	Data Out	Data output line for SPI
6	SDI	Data In	Data input line for SPI
7	SCK	Serial Clock	Clock line to synchronize data write for SPI
8	GND	Ground	
9	VDD	Power	Power source for logic current and LCD



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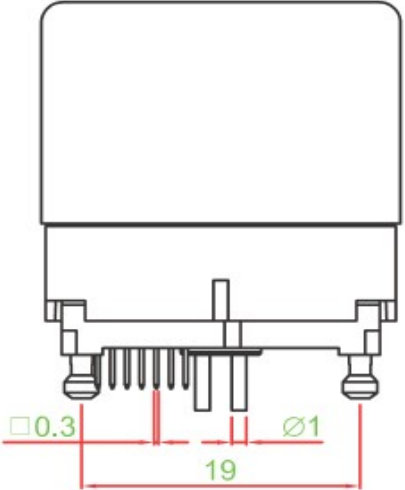
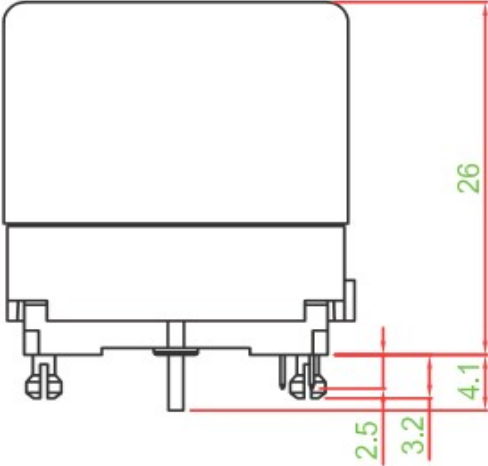
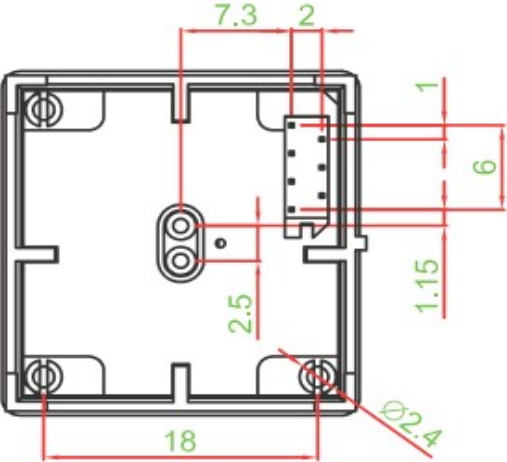
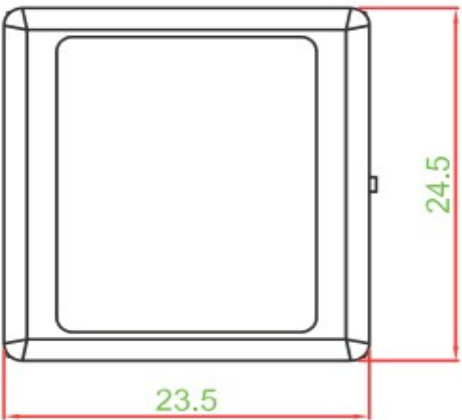
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Dimension & Frame Type



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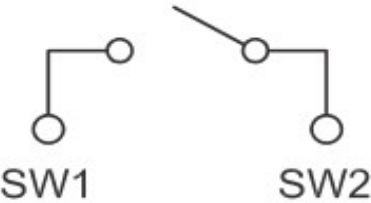
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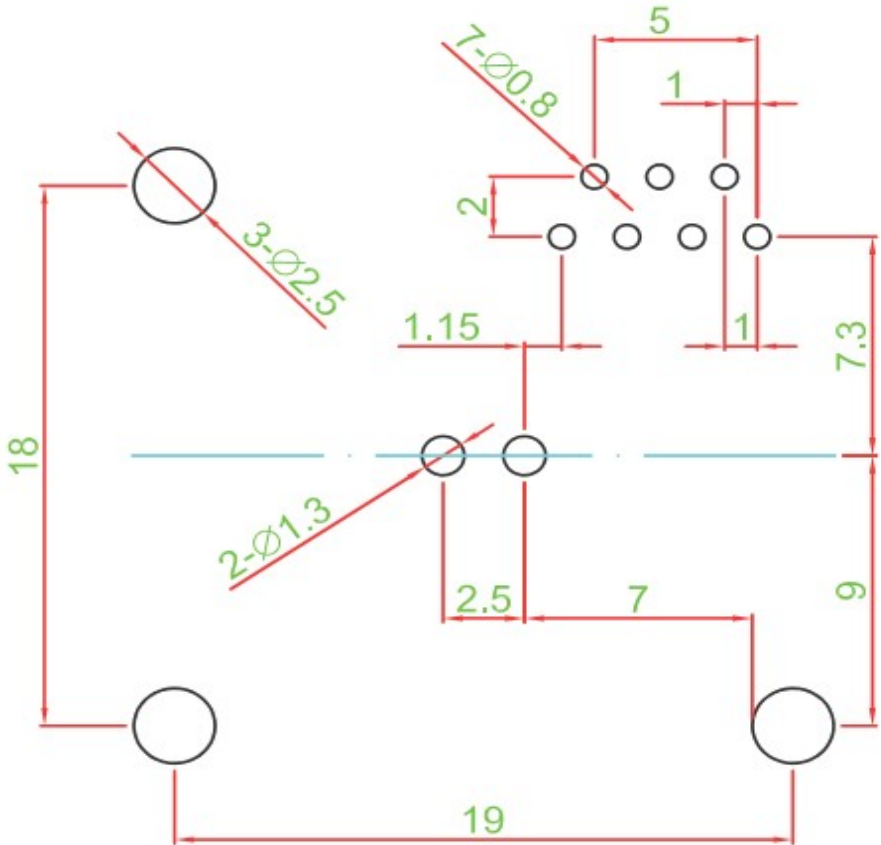
MATERIAL

- COVER : PC
- ACTUATOR : POM
- BASE FRAME : PA + GF
- TERMINAL : BRASS SILVER PLATING
- MOVING CONTACT : PHOSPHOR BRONZE
SILVER PLATING

SCHEMATIC



P.C.B. Layout



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Ordering Informations

Serie	Function	Pole	Position	Function	Cover Colour	Special function	Special function	ROHS	Packing Code	
Q33002	N	1	1	A	K	N	N	R	TY	
	N= Momentary	1= 1 Pole	1= 1 Position	A= Picture 64K (std)	K= Black	N= No function	N= No function	R= ROHS Conform	TU= TUBE Packing	
				B= without Picture				N= NON ROHS Conform		
									TY= TRAY Packing	

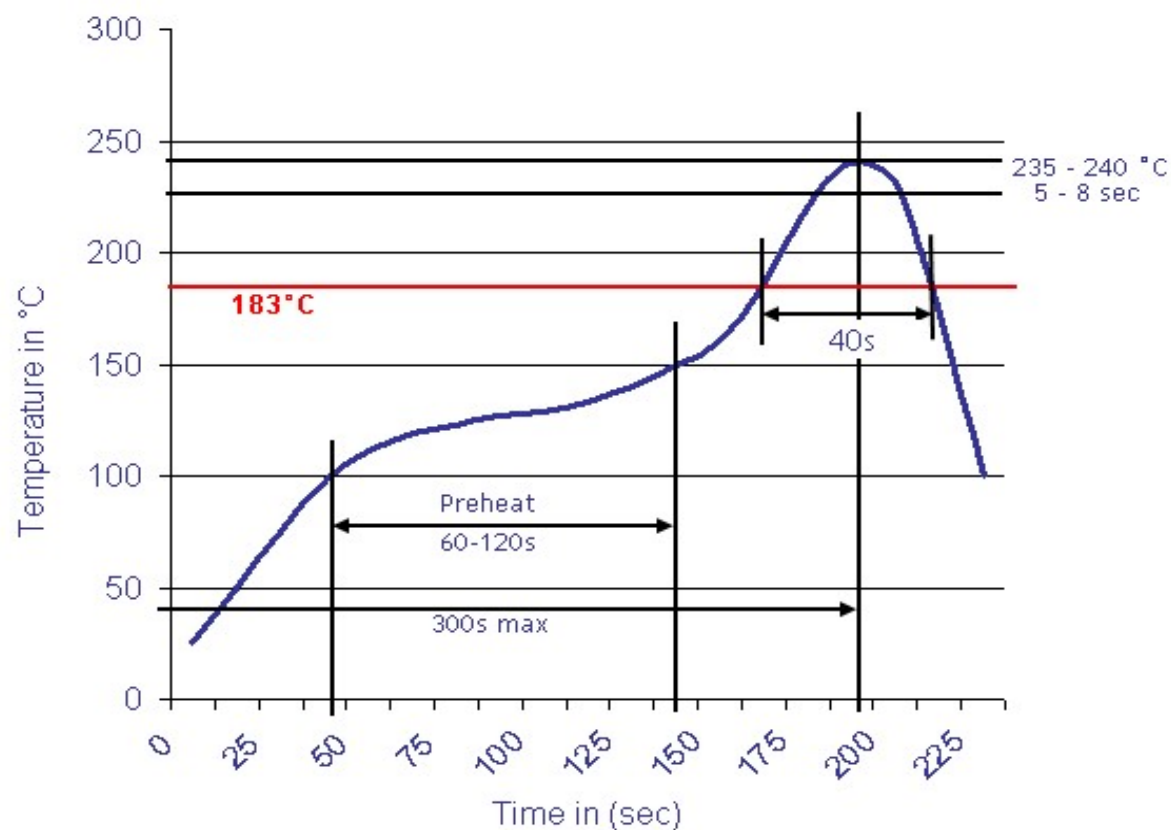
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Soldering Profile Curve

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


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