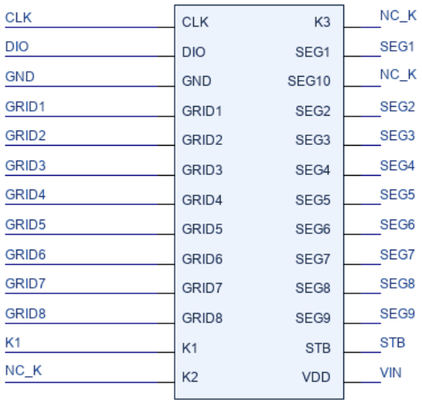
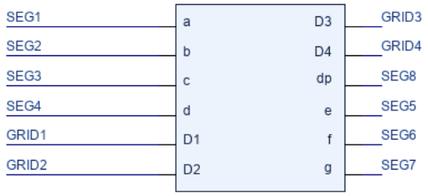
Main Circuit And Support

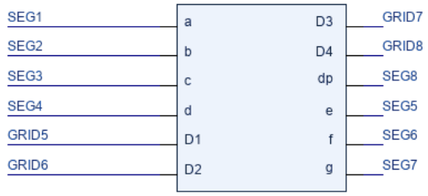
U1
TM1638 8-digit LED + 8x3 key-scan driver



DS1 DNP
0.36" 4-digit 7-segment, common cathode, red (3461AS type)



DS2 DNP
0.36" 4-digit 7-segment, common cathode, red (3461AS type)



SW1
Tactile switch 5.1x5.1mm SMD



Main Circuit And Support

SW2
Tactile switch 5.1x5.1mm SMD

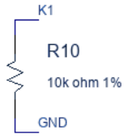


SW3
Tactile switch 5.1x5.1mm SMD

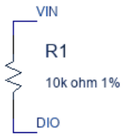


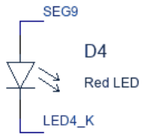
SW4
Tactile switch 5.1x5.1mm SMD

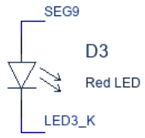


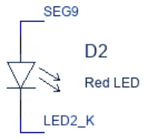


Main Circuit And Support









DESIGN NOTES

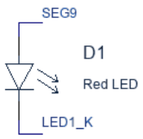
Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

ELECTROTRICAL.COM

PROJECT / DOCUMENT			STATUS
Tm1638 8Digit 8Key Panel			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D18-SCH-001		A3 / LANDSCAPE	1 of 3

Main Circuit And Support



SW5
Tactile switch 5.1x5.1mm SMD



SW6
Tactile switch 5.1x5.1mm SMD



SW7
Tactile switch 5.1x5.1mm SMD



Main Circuit And Support

SW8
Tactile switch 5.1x5.1mm SMD



Power And Indicators

Power And Indicators





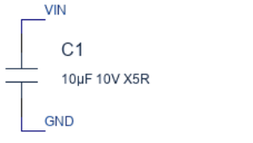




Power And Indicators









DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

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PROJECT / DOCUMENT			STATUS
Tm1638 8Digit 8Key Panel			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D18-SCH-002		A3 / LANDSCAPE	2 of 3

Power And Indicators

KEY7
D15
1N4148W switching diode 75V
K1

KEY8
D16
1N4148W switching diode 75V
K1

LED1_K
R2
330 ohm 1%
GRID1

LED2_K
R3
330 ohm 1%
GRID2

Power And Indicators

LED3_K
R4
330 ohm 1%
GRID3

LED4_K
R5
330 ohm 1%
GRID4

LED5_K
R6
330 ohm 1%
GRID5

LED6_K
R7
330 ohm 1%
GRID6

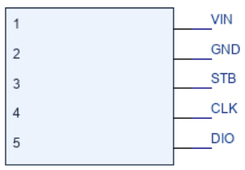
Power And Indicators

LED7_K
R8
330 ohm 1%
GRID7

LED8_K
R9
330 ohm 1%
GRID8

Connectors

J3 DNP
2.54mm male pin header (ship loose)



DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

ELECTROTRICAL.COM

PROJECT / DOCUMENT			STATUS
Tm1638 8Digit 8Key Panel			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D18-SCH-003		A3 / LANDSCAPE	3 of 3