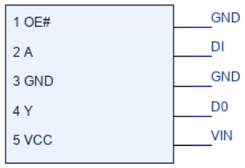
ET-D16

Main Circuit And Support

Main Circuit And Support

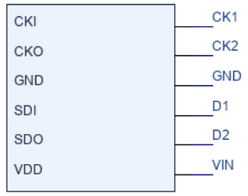
U1

74AHCT1G125 buffer, 3.3V->5V level shift



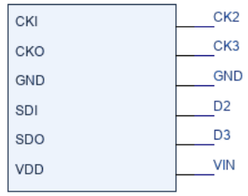
U3

SK9822 RGB LED with SPI-style clock+data driver



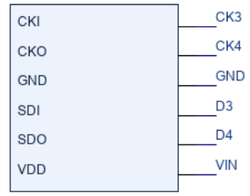
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SK9822 RGB LED with SPI-style clock+data driver



U5

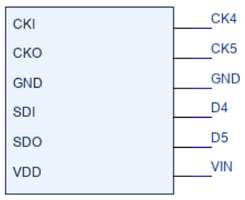
SK9822 RGB LED with SPI-style clock+data driver



Main Circuit And Support

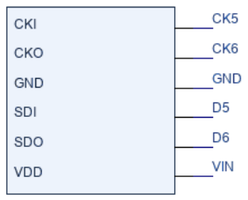
U6

SK9822 RGB LED with SPI-style clock+data driver



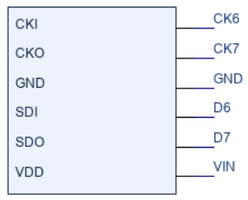
U7

SK9822 RGB LED with SPI-style clock+data driver



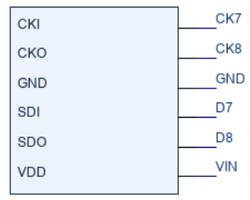
U8

SK9822 RGB LED with SPI-style clock+data driver



U9

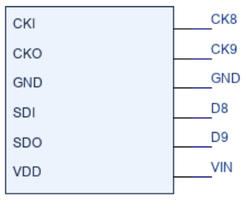
SK9822 RGB LED with SPI-style clock+data driver



Main Circuit And Support

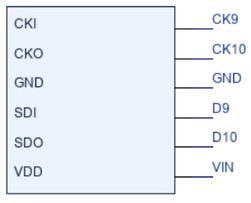
U10

SK9822 RGB LED with SPI-style clock+data driver



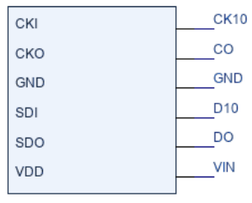
U11

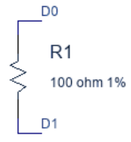
SK9822 RGB LED with SPI-style clock+data driver



U12

SK9822 RGB LED with SPI-style clock+data driver





DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

ELECTROTRICAL.COM

PROJECT / DOCUMENT			STATUS
Sk9822 10 Led Stick			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D16-SCH-001		A3 / LANDSCAPE	1 of 3

Main Circuit And Support

C0
R2
100 ohm 1%
CK1

VIN
C3
100nF 50V X7R
GND

VIN
C4
100nF 50V X7R
GND

VIN
C5
100nF 50V X7R
GND

Main Circuit And Support

VIN
C6
100nF 50V X7R
GND

VIN
C7
100nF 50V X7R
GND

VIN
C8
100nF 50V X7R
GND

VIN
C9
100nF 50V X7R
GND

Main Circuit And Support

VIN
C10
100nF 50V X7R
GND

VIN
C11
100nF 50V X7R
GND

VIN
C12
100nF 50V X7R
GND

VIN
C13
100nF 50V X7R
GND

Power And Indicators

U2
74AHCT1G125 buffer, 3.3V->5V level shift

1 OE#	GND
2 A	CI
3 GND	GND
4 Y	C0
5 VCC	VIN

VIN
C1
10µF 10V X5R
GND

VIN
C2
100nF 50V X7R
GND

DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

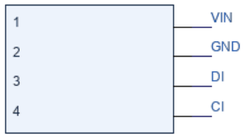
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PROJECT / DOCUMENT			STATUS
Sk9822 10 Led Stick			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D16-SCH-002		A3 / LANDSCAPE	2 of 3

Connectors

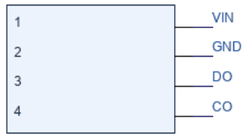
J3 DNP

2.54mm male pin header (ship loose)



J4 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.

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PROJECT / DOCUMENT			STATUS
Sk9822 10 Led Stick			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-D16-SCH-003		A3 / LANDSCAPE	3 of 3