



Title		
Omnicare Driver Board		
Size	Number	Revision
A4		
Date:	11/16/2025	Sheet of
File:	C:\Users\...\DriverBoard.SchDoc	Drawn By: Thiago M.

OmniCare

Driver_Board_V1

OUT1

R7
R

C4
R2
R1

C1
R3
R

OUT2
R8
R

C11
C

C10
R4
R

R5
R11
R10

R12
R13
R14

R9
R6
C14

C13
C6
C9

C5
C12

U1

C8
C3
C7

3V3
EN

PWM2
PWM1

C1

C2

OmniCare

Driver_Board_V1

OUT1
LED

R7
C10

C4
R2
R1

R4
R5
R13

C1
R11

R10
R12
C5

R3
C1
R14

R9
R6
C14

OUT2
LED

R8
C11

C13
C6
C9

C12
R11
R12

U1

C1
C3
C8
C7

C1
C2

C1
C2

3V3
EN

PWM2
PWM1

Comment	Designator	Footprint	Quantity
220u	C1, C2	CAP SMD ELE 10x10.2mm	2
100n	C3, C9, C11	CAP SMD CER 0805	3
10n	C4	CAP SMD CER 0805	1
220n	C5	CAP SMD CER 0805	1
1u	C6	CAP SMD CER 0805	1
470n	C7, C8	CAP SMD CER 0805	2
1n	C10, C12	CAP SMD CER 0805	2
100p	C13, C14	CAP SMD CER 0805	2
CONN HEADER 2.54mm 2x5	CN1	CONN HEADER 2.54mm 2x5	1
Header 2x4 Male	CN2	Header 2x4 Male- Footprint-1	1
RED	ENABLE, OUT1, OUT2	LED SMD 0805	3
BSS84	Q1	SOT23	1
39K	R1	RES SMD 0805	1
1K	R2	RES SMD 0805	1
330R	R3, R5	RES SMD 0805	2
22K	R4, R12	RES SMD 0805	2
5K	R6	RES SMD 0805	1
10K	R7, R8	RES SMD 0805	2
0R05	R9	RES SMD 2512	1
13K	R10	RES SMD 0805	1
220R	R11	RES SMD 0805	1
4K7	R13, R14	RES SMD 0805	2
STSPIN958	U1	NBG32 (VFQFPN 32)	1