



Title		
Size	Number	Revision
A4		
Date:	12/15/2024	Sheet of
File:	D:\khoahocaltium\Bosch\Bosch.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Nut Nhan 2 Chan SMD 3x6x2.5	Nut Nhan 2 Chan SMD 3x6x2.5	BT1, BT2	Nut Nhan 2 Chan SMD 3x6x2.5	Nut Nhan 2 Chan SMD 3x6x2.5	2
10uF	Dán	C1, C2, C4	tu 0805	Tu 0805 680pF 50V 10%	3
680uF	Cắm	C3	tu hoa 10mm	Tu Hoa 470uF 35V 10x15	1
220uF	Cắm	C5	tu hoa 10mm	Tu Hoa 470uF 35V 10x15	1
680pF	Dán	C6	tu 0805	Tu 0805 680pF 50V 10%	1
106	Dán	C9, C10, C16	tu 0805	Tu 0805 680pF 50V 10%	3
22p	Dán	C11, C15	tu 0805	Tu 0805 680pF 50V 10%	2
M7	Dán	D1	DIODE SMA	Diode M7 ( 4007 )	1
3A 24V	2A 24V SMD1812	F1	Cau chi tu phuc hoi 2A 24V SMD1812	Cau chi tu phuc hoi 2A 24V SMD1812	1
LD1085D2T33R	Linear Voltage Regulator IC Positive Fixed 1 Output 3A D2PAK	J1	LD1085D2T33R	LD1085D2T33R	1
Micro SD card socket 9P	9 ( 8 + 1 ) Position Card Connector microSD Surface Mount, Right Angle Gold	J4	Micro SD card socket	Micro SD card socket 9P	1
Radar	Cắm	JP1	JP 1x5 CT	JP 1x5 2.54 Cai Thang	1
Lidar	Cắm	JP2	JP 1x6 CT	JP 1x6 2.54 Cai Thang	1
GPS	Cắm	JP3	JP 1x4 CT	JP 1x4 2.54 Cai Thang	1
CON 2 KF301	Cắm	KF1	Con 2 KF301 5.08	CON 2 KF301	1
33uH - 3A SMD	Dán	L1	Cuon Cam 12x12x10	CUON CAM 100uH SMD	1
LED 0805	Dán	L2, L3, L4	LED-0805-Red	LED 0805 Do	3
BC847B	BJT, SOT-23, 45V, 100mA, NPN, 0.25W, 150C	Q1, Q2	TRANS_BC847B	BC847B	2
820R	Dán	R1, R2, R3	Tro SMD 0805	Tro 0805 5% 820R	3
10K	Dán	R5, R10, R11, R12, R14, R15	Tro SMD 0805	Tro 0805 5% 820R	6
4k7	Dán	R13, R16	Tro SMD 0805	Tro 0805 5% 820R	2
LM2576HVS 5.0V SMD	Dán	U1	TO263-5	LM2576HVS 5.0V SMD	1
ESP32-S		U2	ESP32-S	ESP32-S	1
CH340G	USB Interface Integrated Circuit	U3	SOIC127P600X180- 16N	CH340G	1
USB Micro 5p DIP	USB Type B	USB1	USB Micro 5p DIP	USB Micro 5p DIP	1
12Mhz	Crystal For all Crystal 2pin.	Y1	Thach Anh 2 chan cam	Thach Anh 2 chan Cam	1