

Comment	Description	Designator	Footprint	LibRef	Quantity
AMS1117	Dán	AMS1	SOT223	AMS1117 SMD	1
Nut Nhan 2 Chan SMD 3x6x2.5	Nut Nhan 2 Chan SMD 3x6x2.5	BT1, BT2, BT3	Nut Nhan 2 Chan SMD 3x6x2.5	Nut Nhan 2 Chan SMD 3x6x2.5	3
105	Dán	C1, C2, C3, C8	tu 0603	Tu 0603 105 50V 10%, Tu 0603 105 16V 20%	4
104	Dán	C4, C6, C9, C12, C14, C16, C18, C19, C20, C21, C22, C24, C25	tu 0603	Tu 0603 104 50V 10%	13
106	Dán	C5, C7, C11, C13, C23	tu 0603	Tu 0603 106 16V 20%	5
22pF	Dán	C10	tu 0603	Tu 0603 22pF 50V 10%	1
20pF	Dán	C15, C17	tu 0805	Tu 0805 20pF 50V 10%	2
M7	Dán	D1, D2	DIODE SMA	Diode M7 (4007)	2
MAX30102		IC1	Max30102	MAX30102	1
SWD	Cắm	JP1	JP 1x4 DT	JP 1x4 2.54 Duc Thang	1
LCD OLED	Cắm	JP2	JP 1x4 DT	JP 1x4 2.54 Duc Thang	1
JP 1x3 2.54	Cắm	JP3	JP 1x3 DT	JP 1x3 2.54 Duc Thang	1
ESP8266	Cắm	JP4	JP 1x4 DT	JP 1x4 2.54 Duc Thang	1
LED 0805	Dán	L1, L2	LED-0805-Red	LED 0805 Do	2
Coi Chip Speaker	Còi chip	LS1	Coi Chip Speacker	Coi Chip Speaker	1
Lithium 18650		P1	18650_Lithium	Lithium 18650	1
HF	SOT-23	Q1	SOT-23	Trans C1815 HF SMD	1
510R	Dán	R1, R7	tro smd 0603	Tro 0603 5% 510R	2
4.7k	Dán	R2, R13	tro smd 0603	Tro 0603 5% 4.7k	2
10k	Dán	R3, R4, R5	tro smd 0603	Tro 0603 1% 10k	3
1k	Dán	R6, R8, R9, R10	tro smd 0603	Tro 0603 5% 1k, Tro 0603 5% 4.7k	4
20R	Dán	R11, R12	tro smd 0603	Tro 0603 5% 22R	2
1M	Dán	R14	tro smd 0603	Tro 0603 5% 1M	1
100k	Dán	R15	tro smd 0603	Tro 0603 5% 100k	1
RT9193-33GB	Linear Voltage Regulator IC 1 Output 300mA SOT-23-5	U1	SOT23-5	REG_5.5V-3.3V-0.3A-1W-SOT-23-5	1
STM32F103xx_LQFP48		U2	STM32_LQFP48	STM32F103xx_LQFP48	1
USB Micro 5p SMD	USB Type B	USB1	USB Micro 5p SMD	USB Micro 5p SMD	1
8Mhz	Crystal For all Crystal 2pin.	Y1	Thach Anh 2 chan SMD5032	Thach Anh 2 chan SMD 5032	1