



RefDes	Value
C1	10n
C2	10n
C3	10n
C4	10n
C5	10n
C6	100n
C7	10u
C8	100n
C9	470uf / 10V
C10	1000uf / 6.3V
C11	100n
C12	100n
C13	100n
C14	22
C15	100n
C16	100n
C17	22
C18	100n
D1	Power
D2	SM712
F1	0.3A
F2	2A
F3	1812 0.1A
F4	1812 0.1A
J1	Touch buttons
J2	FW Update
J3	LCD
J4	AC
J5	Program
J6	LOAD
J7	DS18B20
J8	RS485
J9	Program
Q1	BC817
R1	10k
R2	1k
R3	NTC47D-15
R4	100
R5	10k
R6	NTC47D-15
R7	20
R8	10k
R9	100
R10	3.3k
R11	100
R12	3.3k
R13	5.1k
R14	18k
R15	18k
U1	ESP32-WROOM
U2	AMS1117-3.3
U3	HLK-PM01
U4	STM32F070F4P6
U5	ADM3485
U6	DS18B20
Y1	8MHz