

#	Designator	Manufacturer	Manufacturer PN	Qty/ Unit	Value	Parametrics	Package	MNT Type	Layer
1	IC1	Microchip Technology	ATMEGA328P-AUR	1	-	-40°C ~ +80°C, 1.8V ~ 5.5V, 20 MHz 32KB Flash, 2048 Bytes, 23 IO	TQFP	SMD	TOP
2	IC2	Espressif Systems	ESP-WROOM-02	1	-	-40°C ~ +85°C, 2.7V ~ 3.6V, 2MB Flash, <50KB SRAM	-	SMD	TOP
3	X1	NDK America, Inc.	NX8045GB	1	7.3728 MHz	-10°C ~ +70°C, 8pF, ±30ppm	8045[3117]	SMD	TOP
4	R1:R5	Panasonic Electronic Components	ERJ-P08J103V	5	10k Ohms	-55°C ~ +155°C, ±5%, 0.667W, 2/3W	3216[1206]	SMD	TOP
5	R6	Panasonic Electronic Components	ERJ-8GEYJ101V	1	100 Ohms	-55°C ~ +155°C, ±5%, 0.25W, 1/4W	3216[1206]	SMD	BOTTOM
6	R7	Panasonic Electronic Components	ERJ-8GEYJ221V	1	220 Ohms	-55°C ~ +155°C, ±5%, 0.25W, 1/4W	3216[1206]	SMD	BOTTOM
7	R8	Panasonic Electronic Components	ERJ-8GEYJ561V	1	480 Ohms	-55°C ~ +155°C, ±5%, 0.25W, 1/4W	3216[1206]	SMD	BOTTOM
8	C1,C2	Samsung Electro-Mechanics	CL31C100DBCNNNC	2	10pF	-55°C ~ 125°C, ±0.5pF, 50V, X7R	3216[1206]	SMD	TOP
9	C3	Samsung Electro-Mechanics	CL31B103KBCNNNC	1	10nF(10000pF)	-55°C ~ 125°C, ±10%, 50V, X7R	3216[1206]	SMD	TOP
10	C4	Samsung Electro-Mechanics	CL31B104KBPWPNE	1	0.1uF (100nf)	-55°C ~ 125°C, ±10%, 50V, X7R, AEC-Q200	3216[1206]	SMD	TOP
11	C5	Samsung Electro-Mechanics	CL31B105KBHWPNE	1	1uf	-55°C ~ 125°C, ±10%, 50V, X7R, AEC-Q200	3216[1206]	SMD	TOP
12	D1	Lite-On Inc.	LTST-C150AKT	1	Amber	2.1V, 10mA, 6mcd	3216[1206]	SMD	BOTTOM
13	D2	Lite-On Inc.	LTST-C150EKT	1	Red	2V, 10mA, 6mcd	3216[1206]	SMD	BOTTOM
14	D3	Lite-On Inc.	LTST-C150GKT	1	Green	2.1V, 10mA, 6mcd	3216[1206]	SMD	BOTTOM
15	S1:S15	C&K	PTS525 SM15 SMTR2 LFS	15	-	0.02A, 15V, 160GF	-	SMD	BOTTOM
16	S16	Nidec Copal Electronics	CL-SB-12B-02T	1	-	-40°C ~ 85°C, 200mA, 12V, 153GF	-	SMD	TOP
17	BATT-HOLDER	MPD (Memory Protection Devices)	BK-82-ND	4	LR03/AAA		-	TH	T/B