







Comment	Designator	Footprint	Price	Quantity
AGND	1	HC49/4H_SMX		
9.0V/300mAh 2200uF/25v	BT1 C1	BAT-2 2200uF-Nichicon	0.385	
10n/16V	C2	0603C-GENERIC	.049	
300uF/6.3V	C3	300uF-6.3V Vishay	1.5	
1000uF	C4	1000uF/16V	1.5	
100uF/16V	CS	100uF/16V	1.5	
100nF	C6, C7, C9, C11, C12	0603C-GENERIC	0.1	
10uF/6.3V	C8	0603C-GENERIC	.036	
10uF/6.3V	C10	C0805	.036	
18pF/6.3V	C13, C14, C15, C16	0603C-GENERIC	.03	
220nF/16V	C17, C18	0805C-TBD	.0096	
100nF/6.3V	C19 C20, C21	0603C-GENERIC	.03	
18pF/6.3V 4.7uF/16V	C22, C45, C59, C73, C83	0805C-TBD 4.7uF-Nichicon	.065	
4.7uF	C23, C46, C60, C74, C84	4.7uF-Nichicon	.065	
1uF/6.3V	C24, C47, C61, C75	C0805	.05	
	C25, C33, C37, C44, C49, C51, C53, C58, C62, C64, C65,			
10n 100n	C70, C71, C76, C77, C79, C86, C88, C89, C94	0402C-GENERIC 0805C-TBD	.002	21
10n	C26, C28, C29, C30, C31, C34, C35, C42 C27, C39, C50, C54, C63, C66, C72, C78, C87, C90	0402R-GENERIC	.002	10
30pF	C32, C38	0805C-TBD	.002	-
100nF	C36	0805C-TBD		
10pF	C40, C48	0805C-TBD	.00987	
1uF	C41	C0805	.05	
100n	C43, C56, C57, C68, C69, C81, C82, C92, C93	0402C-GENERIC		
.1uF	C52	0805C-TBD	.00206	
1uF	C55, C67, C80, C91	0402C-GENERIC	.05	
1uF/6.3V	C85	0402C-GENERIC	.05	
DF005S2	D1	D-38	0.24	
1N5400/3A	D2, D3	DO-41	.142	
1N5819	D4, D8	SOD123-diodes	.08	
BAS116	D5, D7 D6, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18,	SOT-23_N	.06	
LED2	D19, D20, D21, D23, D24	LED-SM	.04	1
4A/250 AC	F1	FuseHolder - duplicate	.25	
RJ45-GENERIC	J1	RJ45-8/8		
		Coil300uF-		
330uH	L1	MSS1038 Coil300uF-	.82	
100uH	L2	MSS1038	.82	
	13	TOKO-DFE252012C	200	
FB1	L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17,	10	.288	
	L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29,			
FeILB ESP 8266-12	L30, L31, L32, L33 M1	FerriteBead-0603 ESP 1	.027	31
ESP 8266-12	MI	MRF24I40MA-		
MRF24J40MA	M2	zigBEE module	6.08	
Header 2	P1, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22	BG090-header		2
Header 5	P2	HDR1X5		
MMBT2222	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10, Q11	SOT23-BCE	.03	10
MMBT2222	Q9	MMBT2222	.03	
1K/1%/.125W	R1	0805R-10		
45	R2, R9	0805R-68		
100K	R3, R4	0805R-0R1	.0035	
2K/1%/.125	R5	0805R-10	.0035	
10	R6	0805R-12	.0035	
10K	R7	J1-0603	.0035	
2K	R8	0805R-12	.0035	
1.5K	R10	0603R-0R	.00266	
49.9	R11, R12, R13, R14	0603R-0R	.0026	
100	R15, R16, R17, R18	0603R-0R	.1	
33 4.7k	R19	0603R-0R	.1	
4.7k 12.1k	R20 R21	0603R-0R 0603R-0R	.1	
12.1k 200/1%/.125W	R22, R23	J1-0603	.00266	
	R24, R27, R28, R33, R36, R43, R46, R53, R55, R64, R67,			· · · · · · · ·
1K	R73, R76, R81, R83, R89, R91, R99, R102, R108, R110	0805C-GENERIC	.00266	2
18.7	R25, R34, R44, R54, R66, R74, R82, R90, R101, R109	0805R-10	.05	10
220	R26, R97, R114	0805C-GENERIC	.0027	
453K/1%/ .5W	R29, R38, R47, R59, R69, R77, R84, R92, R103, R111	1210R-GENERIC	.055	10
45.3K /1%/.5W 665/.1%/.5W	R30, R39, R48, R60, R70, R78, R85, R93, R104, R112 R31, R40, R50, R63, R71, R80, R86, R95, R106, R113	1210C-GENERIC 1210C-GENERIC	.035	11
665/.1%/.5W 1M	R31, R40, R50, R63, R71, R80, R86, R95, R106, R113	1210C-GENERIC 0805R-12	.0027	11
		0805R-12 0805R-39	.0027	10
470	R35, R42, R51, R56, R65, R72, R87, R94, D98, D105			10
470 2K	R35, R42, R51, R56, R65, R72, R87, R94, R98, R105 R37, R45, R52, R61, R68, R75, R88, R96, R100, R107		.033	
2K	R35, R42, R51, R56, R65, R72, R87, R94, R98, R105 R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R41	0805R-180	.033	
2K 1M	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107			
2K 11M 110k	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107	0805R-180 0805FB-GENERIC		
2K 1M 10k 220	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R41 R49	0805R-180 0805FB-GENERIC 0805R-27	.0027	
2K 1M 10k 220	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R41 R49 R57	0805R-180 0805FB-GENERIC 0805R-27 0805R-120	.0027	
2K 1M 10k 220 220	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R58 R62, R79	0805R-180 0805FB-GENERIC 0805R-27 0805R-120 0805R-12 0805R-10 PowerSwitch220v/	.0027 .0027 .0027	
2K 1M 10k 220 220	837, R45, R52, R61, R66, R75, R88, R96, R100, R107 R41 R49 R57 R58 R62, R79 S1	0805R-180 0805FB-GENERIC 0805R-27 0805R-120 0805R-12 0805R-10	.0027 .0027 .0027	
2K 1M 10k 220 220 220 220 Power On	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R58 R62, R79	0805R-180 0805FB-GENERIC 0805R-27 0805R-120 0805R-12 0805R-10 PowerSwitch220v/ 5A	.0027 .0027 .0027	
2K 1M 10k 220 220 220 Power On TESTPOINT	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R62, R79 S1 P1, TP2, TP4, TP4, TP5, TP6, TP7, TP8, TP10, TP11, TP12, TP13	0805R-180 0805F8-GENERIC 0805R-27 0805R-120 0805R-12 0805R-10 PowerSwitch220v/ 5A TESTPOINT Transform220/110-	.0027 .0027 .0027	11
ZX 1M 10k 220 220 220 Power On TESTPOINT PU39238-Tr220-12-2-5A	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R59 R50, R79 S1 P1, TP2, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13	0805R-180 0805FB-GENERIC 0805R-27 0805R-120 0805R-12 0805R-10 PowerSwitch220v/ 5A	.0027 .0027 .0027	
	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R62, R79 S1 P1, TP2, TP4, TP4, TP5, TP6, TP7, TP8, TP10, TP11, TP12, TP13	0805R-180 0805FB-GENERIC 0805R-27 0805R-120 0805R-12 0805R-12 0805R-12 1805R-10 PowerSwitch220v/ 5A TESTPOINT Transform220/110- 12/3 6-pins Molex23- 5Ahm	.0027 .0027 .0027	11
2X 1M 10k 220 220 220 220 Power On TESTPOINT PU39238-Tr220-12-2.5A Tr-Switch	R37, R45, R52, R61, R68, R75, R88, R96, R100, R107 R49 R57 R58 R62, R79 S1 P1, TP2, TP4, TP5, TP6, TP7, TP6, TP10, TP11, TP12, TP1 TR1 TR2	0805R-180 0805FB-GENERIC 0805R-120 0805R-120 0805R-12 0805R-10 PowerSwitch220v/ 5A TESTPOINT Transform220/110- 125 16-jnis Molex2x3- 5Ahm	.0027 .0027 .0027	11
2X IM IM IOI IOI 220 220 220 Power On IESTPOINT PU39238-Tr220-12-2.5A Tr-Switch SSSS-5999-Eth.TR	R37, R85, R52, R91, R66, R75, R88, R96, R100, R107 R40 R57 R58 R62, R79 S1 P91, 1792, 1794, 1795, 1796, 1797, 1798, 17910, 17911, 17912, 1791 TR1 R2 Tr611	0805R-180 0805R-27 0805R-27 0805R-12 0805R-12 0805R-12 0805R-12 75 0805R-10 75 75 75 75 75 75 75 75 75 75 75 75 75	.0027 .0027 .0027 .0027	1
2X IM IM IOR 2220 2220 2220 220 Power On TESTFOINT PUJ 92328-Tr 220-12-2-5A Tr-Switch SSSS-599-Eth.TR	R37, R45, R52, R61, R66, R75, R88, R96, R100, R107 R49 R57 R58 R62, R79 S1 P91, IP2, IP3, IP4, IP5, IP6, IP7, IP8, IP9, IP10, IP11, IP12, TR1 TR2 U1	0805R-180 0805R-27 0805R-20 0805R-12 0805R-12 0805R-12 0805R-12 18578-10 18578-10 18578-10 18579-18579 18579-18579 18579-18579 18579-18579 18579-18579 18579-18579 18579-18579 18579-18579 185799 18579-18579 185799 18578-18579 18578-185799 1	.0027 .0027 .0027 .0027 .0027	1
2X TIM TOR 100 100 100 100 100 100 100 1	R37, R85, R82, R81, R86, R75, R88, R96, R100, R107 R41 R49 R57 R58 R82, R79 S1 TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP9, TP10, TP11, TP12, TP3 TR1 TR2 TR2 TR2 TR1 U1 U1	0805R-180 0805R-27 0805R-27 0805R-12 0805R-12 0805R-12 0805R-12 70805R-10 754 754 755 754 755 755 755 755 755 755	.0027 .0027 .0027 .0027 .0027	1
2K IM	R37, R45, R52, R51, R66, R75, R88, R96, R100, R107 R49 R57 R58 R52 R57 R58 R52, R79 S1 R11 R11 R11 R11 R11 R11 R11 R11 R11	0805R-180 0805R-27 0805R-12 0805R-12 0805R-12 0805R-10 0805R-10 PowerSwitch220/ 5A TESTPOINT Transform220/110-12/3 5Ahm 070,263/KTT LT3092	.0027 .0027 .0027 .0027 .0027 .0027	1
2K TM TM TM TM TM TM TM TM TM T	R37, R85, R82, R81, R86, R75, R88, R96, R100, R107 R41 R49 R57 R58 R82, R79 S1 TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP9, TP10, TP11, TP12, TP3 TR1 TR2 TR2 TR2 TR1 U1 U1	0805R-180 0805R-27 0805R-27 0805R-120 0805R-12 0805R-12 0805R-12 0805R-12 0805R-12 12 7 1851POINT 12/3 6-pins Molex2x3-5Ahm 5558-5999- Ethtransf 10_263/KTT 121392 170-263/KTT	.0027 .0027 .0027 .0027 .0027	1
ZX 1M 10k 220 220 220 Power On TESTPOINT PU39238-Tr220-12-2-5A	R37, R85, R82, R81, R86, R72, R88, R96, R100, R107 841 R49 R57 R57 R58 R62, R79 S1 P91, T92, T94, T95, T96, T97, T96, T99, T910, T911, T912, T91 TR1 TR2 T81 U1 U1 U2 U3 U4	0805R-180 0805R-26 0805R-27 0805R-12 0805R-12 0805R-12 0805R-12 0805R-11 0805R-12 185TPOINT Transform220/110-12/3 6-pins Molex23-5Ahn 10_c63/KTT 17,3992 11,7392 11,73	.0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027	1
28 28 28 28 28 28 28 28 28 28 28 28 28 2	R37, R85, R52, R91, R68, R75, R88, R96, R100, R107 R40 R57 R58 R62, R79 S1 P91, IP2, IP93, TP4, IP5, IP6, IP7, IP9, IP10, IP11, IP12, IP13 R1 R2 FETT U1 U2 U3 U4 U4, U7, U9, U10, U11	0805R-180 0805R-26 0805R-27 0805R-12 0805R-12 0805R-12 0805R-10 RowerSwitch220v/5A TESTPOINT Transform220/110-12/3 6-pins Molex2x3-shrm 5558-5999- Ethtransf T0_x63/KTT LT3092 CP-263/KTT CP-7624_4X4_N	.0027 .0027 .0027 .0027 .0027 .96 .2.36 .96 .76	1
2K MM M M M M M M M M M M M M M M M M M	R37, R45, R52, R51, R68, R75, R88, R96, R100, R107 R49 R57 R58 R57 R58 R52 R57 R59 R52 R57 R51 R51 R51 R51 R51 R51 R51 R52 R51 R51 R52 R51 R51 R52 R51 R52 R51 R52 R51 R53 R54 R55 R55 R55 R55 R56, R79, R79, R79, R79, R79, R79, R79, R79	0805R-180 0805R-27 0805R-180 0805R-27 0805R-120 0805R-12 0805R-12 0805R-10 1805R-10	.0027 .0027 .0027 .0027 .0027 .96 .2.36 .96 .76	1
2K MM M M M M M M M M M M M M M M M M M	R37, R85, R52, R81, R66, R75, R88, R96, R100, R107 R41 R49 R57 R57 R58 R62, R79 S10 T91, T92, T94, T94, T95, T96, T97, T90, T910, T911, T912, T913 TR1 TR2 D6T1 U1 U2 U3 U4 U5, U7, U9, U10, U11 U6 U8	00058-180 000598-000812 00058-27 00058-120 00058-27 00058-120 00058-120 00058-120 00058-120 00058-120 00058-120 00058-120 1005	.0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027 .0027	11