





Component_1 AGND		Footprint	Price	Quantity
	11			
	1	HC49/4H_SMX		1
9.0V/300mAh 1uF/6.3V	BT1 C1, C7	BAT-2 0603C-GENERIC	.049	1
22uF	C2, C6, C8, C10	300uF-6.3V Vishay	1.5	4
100nF/35V	C3, C9, C12, C13, C15, C24	0402C-GENERIC	.049	6
2200uF/35v	C4	2200uF-Nichicon	0.385	1
10n/35V	C5	0402C-GENERIC	.049	1
10uF/6.3V 1uF	C11, C14 C16	10uF/6.3V 0402C-GENERIC	.036	2
470pF	C17	0402C-GENERIC	0.1	
10pF/50V	C18, C19, C20, C21	0402C-GENERIC	.03	4
1000pF/3kV	C22	1808	.0096	1
22nF/16V	C23	0402C-GENERIC	.0096	1
18pF/6.3V 100nF/16V	C25, C26 C27, C91, C100	0805C-TBD 0402C-GENERIC	.002	2
1uF/6.3V	C28, C59, C77, C92, C111	0402C-GENERIC	.05	-
10170.34		040EC-GENERIC	.03	
150pF	C29, C32, C50, C52, C56, C61, C62, C69, C71, C74, C79, C80, C86, C88, C104, C105, C108, C113, C114, C120, C121	0402C-GENERIC	.002	21
	C30, C51, C53, C57, C70, C72, C75, C87, C89, C106, C107,			
100n 100uF	C109, C122, C123 C31, C58, C76, C110	0402C-GENERIC 4.7uF-Nichicon	.002	14
100n	C33 C36 C38 C39 C41 C44 C45	0805C-TBD		7
10n/16V	C34, C43, C48, C54, C63, C66, C68, C73, C82, C84, C85, C90, C94, C101, C102, C103, C117, C118, C119, C124	0402C-GENERIC	.002	20
150pF/16V	C35, C95, C96, C98	0402C-GENERIC	.002	4
100nF	C37, C60, C65, C78, C83, C112, C116	0402C-GENERIC	.002	7
4.7uF/16V	C40, C99	4.7uF-Nichicon	.065	2
30pF	C42, C47	0805C-TBD		2
100nF	C46	0805C-TBD	00007	1
10pF 4.7uF	C49, C55 C64, C81, C115	0805C-TBD 4.7uF-Nichicon	.00987	- 2
4.7uF .1uF	C64, C81, C115 C67	4.7uF-Nichicon 0805C-TBD	.00206	
100n/16V	C93	0402C-GENERIC	.002	1
100uF/16V	C97	4.7uF-Nichicon	.065	1
1N4148	D1, D8	sod-123	.142	2
DF005S2	D2	D-38	0.24	1
1N5400/3A BAS116	D3, D4	DO-41 SOT-23_N	.142	2
BAS116 2V/20mA	D5, D7 D6, D9, D10, D11	SOT-23_N LED-SM	.06	2
,	D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22,			
LED2	D23	LED-SM FuseHolder -	.04	12
250mA/250 AC	F1	duplicate	.25	1
RJ45-GENERIC	л	RJ45-8/8		1
4.7uH/2.6A	L1 L2	Inductor 4.7/6.8	.82	1
6.8uH/2.3A FB1	13	Inductor 4.7/6.8 0603C-2U2	.288	-
	L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17,	00030-202		· ·
FelLB	L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33	FerriteBead-0603	.027	30
ESP 8266-12	M1	ESP_1		1
MRF24J40MA	M2	MRF24J40MA- zigBEE module	6.08	
MKF24J4UMA	P1, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15,	zigBEE module	6.08	<u> </u>
Header 2	P16, P17, P18, P19, P20, P21, P22	BG090-header		21
Header 5 MMBT2222	P2 Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10	HDR1X5 MMBT2222	.03	10
MMBT2222	Q11	SOT23-BCE	.03	1
0/125W	R1, R13	0805R-0R1	.0035	2
110/1%/.125W	R2	0805R-10		1
100K	R3, R15	0805R-0R1	.0035	2
75K/1%/: 125W	R4, R16	0805R-0R1	.0035	2
40.2K/1%/.125W	R5, R17	0805R-0R1	.0035	2
60 13K	R6, R36, R37	0805R-68 0805R-0R1	.0035	3
	R8	0805R-0R1	.0035	
			.0035	1
57.6K 32.4K	R9	0805R-0R1		
57.6K	R9 R10, R14	0805R-0R1 0805R-10	.0035	2
57.6K 32.4K 12K/1%/.125	R10, R14 R11	0805R-10 0805R-12	.0035	2
57.6K 32.4K 12K/1%/.125 10 10K	R10, R14 R11 R12	0805R-10 0805R-12 0805R-10K		1 1
57.6K 32.4K 12K/1%/.125 10 10K	R10, R14 R11 R12 R18	0805R-10 0805R-12 0805R-10K 0805R-68	.0035	2 1 1 1 1
57.6K 32.4K 12K/1%/.125 10 10K 150 7.68K	R10, R14 R11 R12 R18 R19	0805R-10 0805R-12 0805R-10K 0805R-68 0805R-0R1	.0035 .0035	2 1 1 1 1
57.6K 32.4K 12K/1%/.125 10 10K	R10, R14 R11 R12 R18	0805R-10 0805R-12 0805R-10K 0805R-68	.0035	2 1 1 1 1 1 4
57.6K 32.4K 12K/1%/.125 10 10K 150 7.68K 1.5K	R10, R14 R11 R12 R18 R19 R19 R20 R21, R22, R26, R31, R32	0805R-10 0805R-12 0805R-10K 0805R-68 0805R-0R1 0603R-0R 0603R-0R	.0035 .0035 .0035 .0035	2 1 1 1 1 1 1 4 4
57.6K 32.4K 32.4K 124.71%,/125 10 10 10K 150 7.68K 1.5K 49.9	810 814 811 812 812 818 819 820 820 820 821, 822, 823, 824 825, 826, 831, 832 827, 828, 833, 830	0805R-10 0805R-12 0805R-10K 0805R-68 0805R-68 0805R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .0026 .0026 .0026	2 1 1 1 1 1 1 4 4 4
57.6K 32.4K 32.4K 32.4K 100 100 10K 1150 7.68K 1.5K 49.9 75/19/(-125W) 100 33	R10, R14 R11 R12 R18 R19 R19 R20 R20 R20 R21, R22, R23, R24 R25, R24, R31, R22 R27, R24, R29, R30 R23 R27, R24, R29, R30	0805R-10 0805R-12 0805R-10K 0805R-68 0805R-68 0805R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .0026 .1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
\$7.6K 32.4K 32.4K 32.4K 12K/1%/,125 10 10 10K 150 7.66K 1.5K 49.9 75/11%/,125W 100 33 34 4.7k	810 814 811 812 812 818 819 819 819 820 820 820 821 822 822, R22, R24, R24 825, R32, R32, R32 825, R32, R32, R32 825, R32, R32, R32 823 833	0805R-10 0805R-12 0805R-10K 0805R-68 0805R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .0026 .0026 .0026 .1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
\$7.6K \$2.4K \$2.4K \$12K/1%/.125 10 10K 150 7.66K 150 7.66K 150 100 30 31 4.7k 12.1k	810 814 811 812 812 818 819 820 820 821 822 823 824 825 826, R21, R22, R23, R24 825, R26, R21, R22 825, R26, R21, R22 827, R28, R29, R30 833 833 834 835 834 835 835 836	08058-10 08058-12 08058-10K 08058-08 08058-08 08058-08 06038-0R 06038-0R 06038-0R 06038-0R	.0035 .0035 .0035 .00266 .0026 .0026 .1 .1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
\$7.6K \$2.4K	810. B14 811 812 812 812 818 819 819 820 821 822, 823, 824 825 826, 813, 822 827 826, 825 830 827 827, 827, 828, 828 828 826, 813, 822 828 826, 813, 822 828 826, 813, 812 828 826, 813, 813, 823, 823, 823, 823, 824, 824, 824, 824, 824, 824, 824, 824	0805R-10 0805R-10 0805R-10K 0805R-10K 0805R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .0026 .1 .1 .1 .1	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 20
57 6K 1224/FM, 125 10 10 10K 150 150 17 6BK 189 199 191 100 100 100 100 100 100 100 10	810 R14 811 812 812 818 819 820 820 821 R22, R23, R24 825 826, R31, R32 827, R28, R39, R30 833 834 835 834 835 834 R35 836, R41, R41, R41, R41, R41, R41, R41, R41	0805R-10 0805R-10 0805R-10K 0805R-08 0805R-08 0605R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .11 .1 .1 .1 .1 .00266	10
57 6K 128/19/1/125 10 10 10K 150 150 17 68K 149 9 100 100 100 100 100 101 11K 118 118	810 R14 811 812 812 818 819 819 819 810 811 819 810 821 R22, R23, R24 825 R24, R25, R24 827 R28, R28, R31, R25 827 R28, R28, R31, R22 828 R28, R28, R31, R32 828 R28, R38, R38, R38, R38, R38, R38, R38, R3	0805R-10 0805R-10 0805R-10K 0805R-10K 0805R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .0026 .1 .1 .1 .1	
\$7.0K \$2.2K \$1.2K/YM-/125 10.0 10.0 10.0 15.0 15.0 15.0 15.0 15.	810 R14 811 812 812 818 819 819 819 810 811 819 810 821 R22, R23, R24 825 R24, R25, R24 827 R28, R28, R31, R25 827 R28, R28, R31, R22 828 R28, R28, R31, R32 828 R28, R38, R38, R38, R38, R38, R38, R38, R3	0805R-10 0805R-12 0805R-10K 0805R-0B1 0805R-0B1 0603R-0B 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .0026 .11 .1 .1 .1 .00266 .05	10
\$7 86K 1284718/125 100 100 100 150 150 150 150 150 150 15	810 B14 811 812 812 813 819 819 819 819 820 821 R22, R22, R24 825 R26, R31, R22 825, R26, R31, R22 825, R26, R31, R22 825, R26, R31, R22 825, R26, R31, R32 839 839 838 R26, R36, R37, R37, R37, R37, R37, R37, R37, R37	0805R-10 0805R-10 0805R-10K 0805R-08 0805R-08 0605R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R 0603R-0R	.0035 .0035 .0035 .00266 .0026 .11 .1 .1 .1 .1 .00266	10
\$7 86K 1284718/125 100 100 100 150 150 150 150 150 150 15	810. B14 811 812 812 813 819 819 819 820 821 822, 823, 824 825 826, 821, 822 827 828, 828, 828 828 828, 828, 828 828 828, 828,	0805R-10 0805R-10 0805R-10K 0805R-10K 0805R-68 0805R-68 0805R-0R1 0603R-0R	.0035 .0035 .0035 .00266 .0026 .0026 .1 .1 .1 .1 .1 .1 .1 .1	10
\$7.0K \$2.24 \$2.25	810 814 811 812 812 813 819 810 819 820 820 821 822 823 824 825 826, 821, 822 827 828, 824 825 824 825 824 825 824 825 824 825 824 825 824 825 824 825 824 825 824 825 826 826 827 827 828 828 828 828 828 828 828 828	0805R-10 0805R-12 0805R-12 0805R-10K 0805R-68 0805R-68 0603R-0R 1005R-0R 1005R-10	0035 .0035 .0035 .0035 .0035 .0026 .0026 .0026 .1 .1 .1 .1 .1 .00266 .0027 .0055 .0027	30 8 1 1
\$7 DK \$ 23.4K \$ 23.4K \$ 1327/19/,125 10 10 10 10 10 10 10 10 10 10 10 10 10	810. B14 811 812 813 818 819 820 821 R2, R28, R28 821 822 R28, R28, R28 823 R28, R28, R28 824 R28, R28, R28 825 R28, R28, R28 824 R28, R28, R28 824 R28, R28, R28 825 R28, R28, R28 826 R28, R28, R28, R28 827 R28, R28, R28, R28 828 R28, R28, R28, R28 828 R28, R28, R28, R28 829 R28, R28, R28, R28 829 R28, R28, R28, R28 829 R28, R28, R28, R28, R28 829 R28, R28, R28, R28, R28, R28, R28, R28,	0005R-10 0005R-12 0005R-10 0005R-12 0005R-10 0005R-10 0005R-00	0035 0095 0095 0095 0095 0096 0096 0096 009	30 8 1 10
\$7.0K \$2.24K \$2.2	810 814 811 812 812 813 819 819 819 819 819 819 819 819 819 819	00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-10	0035 .0035 .0035 .0035 .0035 .0026 .0026 .0026 .1 .1 .1 .1 .1 .00266 .0027 .0055 .0027	30 8 1 10 10
\$7 DK \$ 224K \$ 2	810. B14 811 812 812 813 819 819 819 820 821 822, 823, 824 825 826, 821 825 827 828, 828, 828 828 828, 828, 828 828 828, 828,	00058-12 00058-12 00058-12 00058-12 00058-12 00058-10 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-68 00058-10 000	0035 0035 0035 0035 0026 0026 0026 1 1 1 1 1 00266 05 0027 055 0027	30 8 1 10
\$7.0K \$2.24K \$2.2	810 814 811 812 812 813 819 819 819 819 819 819 819 819 819 819	00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-10 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-0 00058-10	0035 0095 0095 0095 0095 0096 0096 0096 009	30 8 1 10 10
57 DK	810 814 811 812 813 819 810 819 820 820 821 822 823 824 825 RER, RER, RER, RER, RER, RER, RER, RER	90551-10 90551-12 90551-10 90551-10 90551-10 90551-07 905	0035 0035 0035 0036 0026 0026 0026 1 1 1 1 00266 05 0027 0027 003 0027	30 8 1 10 10 11
57 JBK 57	810. B14 811 812 812 813 819 819 819 820 821 B22, B23, B24 821 822 B24 823 B24 824 B25 825 B26, B26, B27 825	90558-10 905	0035 0035 0035 0035 00266 00266 0026 1 1 1 1 00266 0027 0027 0027	30 8 1 10 10 10 11
\$7.0K \$2.24K \$2.2	810 814 811 812 813 814 815 815 816 817 818 818 819 819 810 811 811 811 812 813 810 811 811 812 813 814 815 814 815 814 815 815 814 815 815 814 815 815 816 816 817 817 817 817 817 817 817 817 817 817	90558-10 100559-12 100559-10 100559-12 100559-10 100559-10 100559-00 100559-10 100559-	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	30 8 1 10 10 10 11
\$7 DK \$1247% 125 TO \$10	810. B14 811 812 812 813 819 819 820 821 822, 823, 824 825 826, 821 822 827 828, 828, 828 828 828, 821, 822 828 828, 821, 822 828 828, 821, 822 828 828, 828, 828 828 828 828, 828,	9,005 - 10 1,005 - 10	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 66 300 88 11 110 100 110 110 110 110 110 110
\$7 DK	810 814 811 812 813 815 816 817 818 819 819 810 811 811 812 813 810 811 811 812 813 814 815 815 814 815 814 815 814 815 815 814 815 815 816 816 817 817 817 817 817 817 817 817 817 817	90556-10 10 90556-10 10 10 10 10 10 10 10 10 10 10 10 10 1	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 6 8 8 1 1 100 100 100 100 100 100 100 100
\$7 DK \$ 22.4K	810 814 811 812 812 813 814 819 819 810 811 819 810 811 811 811 811 811 811 811 811 811	00058-10 00058-12 00058-12 00058-10 00058-10 00058-01	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 66 300 88 11 110 100 110 110 110 110 110 110
57 DK	810 814 811 812 813 815 816 817 818 819 819 810 811 811 812 813 810 811 811 812 813 814 815 815 814 815 814 815 814 815 815 814 815 815 816 816 817 817 817 817 817 817 817 817 817 817	90556-10 90566-10 90556-10 90556-10 90556-10 90556-10 90556-10 90556-10 90566-10 90556-10 90566-10 905	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 6 8 8 1 1 100 100 100 100 100 100 100 100
57 DK	810 814 811 812 812 813 814 819 819 810 811 819 810 811 811 811 811 811 811 811 811 811	9858-10 9858-12 9859-10 9859-1	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 6 8 8 1 1 100 100 100 100 100 100 100 100
57 JoK 57	810 814 811 812 812 813 819 819 819 820 821 822 823 824 827 828 828 829 827 828 828 828 828 827 828 828 828 828 828 828 828 828 828 828 828	9058-10 9058-12 9058-12 9058-18 9058-1	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 6 8 8 1 1 100 100 100 100 100 100 100 100
57 DK	810 814 811 812 812 813 814 819 819 810 811 819 810 811 811 811 811 811 811 811 811 811	00058-10	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	10 10 10 10 10 10 10 10 10 10 10 10 10 1
57 JoK 57	810 814 811 812 812 813 819 819 819 820 821 822 823 824 827 828 828 829 827 828 828 828 828 827 828 828 828 828 828 828 828 828 828 828 828	9058-10 9058-12 9058-12 9058-18 9058-1	0035 0035 0035 0036 0036 00266 0026 1 1 1 00266 05 0027 0037 0027 0027	100 6 8 8 1 1 100 100 100 100 100 100 100 100
57 JoK 57	810 814 811 812 812 813 819 819 819 820 821 822 828 828 828 828 828 828 828 828	00058-12 00058-12 00058-12 00058-12 00058-12 00058-16 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00058-64 00059-64	00315 00315 00315 00315 00326 00326 00326 1 1 1 1 1 003266 0032 0032 0032 0032 0033 0033 00	10 10 10 10 10 10 10 10 10 10 10 10 10 1
57 DK	810 R14 811 812 812 813 814 815 816 817 818 818 819 819 820 821 R22, R23, R24 824 825 R22, R23, R24 825 R22, R23, R24 827 R22, R23, R24 828 828 828, R25, R25, R35 828 828, R26, R35, R35, R35, R32, R70, R72, R31, R36, R32, R36, R30, R30, R30, R30, R30, R30, R30, R30	00058-10	0015 0015 0015 0015 0015 0016 0016 0016	10 10 10 10 10 10 10 10 10 10 10 10 10 1
57 JoK 57	810 818 811 812 812 813 819 819 820 821 822 828 824 829 821 822 823 824 827 828 828 821 822 827 828 828 821 822 827 828 828 821 822 828 828 821 822 828 828 821 822 828 828 828 828 828 828 828 828 828	00058-12	00315 00315 00315 00315 00326 00326 00326 1 1 1 1 1 003266 0055 0027 0057 0027 0027 0027 0027 0027	10 10 10 10 10 10 10 10 10 10 10 10 10 1
57 DK 124 CH 125 CH 126	810 R14 811 812 812 813 814 815 816 817 818 818 819 819 820 821 R22, R23, R24 824 827 R28, R29, R30 828 828, R28, R30, R30 828 828, R28, R30, R30 828 828, R28, R30, R30 829 828, R28, R30, R30 829 829 829 829 820 820 820 820 820 820 820 820 820 820	00058-10 00058-10	0015 0015 0015 0015 0015 0016 0016 0016	10 10 10 10 10 10 10 10 10 10 10 10 10 1
57 Jok 57	810 814 811 812 812 813 819 819 820 821 822 828 824 829 821 822 828 824 827 828 828 811 822 827 828 828 811 822 827 828 828 811 822 828 828 811 822 829 828 828 828 828 828 828 828 828 828 828 828	00058-12 00058-12 00058-12 00058-12 00058-12 00058-16 00058-64 00058-64 00058-68 00058-69 00058-19	00315 00315 00315 00315 00326 00326 00326 1 1 1 1 1 003266 0055 0027 0057 0027 0027 0027 0027 0027	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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