

Item Number	Description	Size	Manufacturer	Substitute	Amount	Unit	Orientation
1	EA03-0000JB-B30	(0 Ω ±5% 1/16W 0402)	RC0402JR-070R	YAGEO		18 PCS	(B205 B206, L501, L505, R325, R101, R103,) (R502, R609, B203, B204, R520, R521, R617)
2	EA03-0000JF-C30	(0 Ω ±5% 1/10W 0603)	RC0603JR-070R	YAGEO	1	4 PCS	(B201, B202, F101, L205)
3	EA03-0000JF-C20	(0 Ω ±5% 1/10W 0603)	RK73B1JLTD000J	CYNTEC	1	4 PCS	()
4	EA03-0000JF-C10	(0 Ω ±5% 1/10W 0603)	MCR03EZPJ000	ROHM	1	4 PCS	()
5	EA03-0000JC-D30	(0 Ω ±5% 1/8W 0805)	RC0805JR-070R	YAGEO		1 PCS	(R105)
6	EA03-039SFE-D10	(0.39 Ω ±1% 1/4W 0805)	MCR10EZHFL-R39	ROHM	2	1 PCS	(R110)
7	EA03-039SFE-D31	(0.39 Ω ±1% 1/4W 0805)	RL0805FR-7W0R39L	YAGEO	2	1 PCS	()
8	EA03-068FJF-C30	(6.8 Ω ±5% 1/10W 0603)	RC0603JR-076R8	YAGEO		1 PCS	(R605)
9	EA03-0100JB-B30	(10 Ω ±5% 1/16W 0402)	RC0402JR-0710R	YAGEO		1 PCS	(R514)
10	EA03-0200JB-B30	(20 Ω ±5% 1/16W 0402)	RC0402JR-0720RL	YAGEO		2 PCS	(R653, R654)
11	EA03-0330JB-B30	(33 Ω ±5% 1/16W 0402)	RC0402JR-0733R	YAGEO		2 PCS	(R320, R321)
12	EA03-0360JB-B30	(36 Ω ±5% 1/16W 0402)	RC0402JR-0736R	YAGEO		1 PCS	(R522)
13	EA03-0151JB-B30	(150 Ω ±5% 1/16W 0402)	RC0402JR-07150R	YAGEO		2 PCS	(R523 R524)
14	EA03-0820JB-B31	(82 Ω ±5% 1/16W 0402)	RC0402JR-0782RL	YAGEO		1 PCS	(R527)
15	EA03-0510JB-B30	(51 Ω ±5% 1/16W 0402)	RC0402JR-0751R	YAGEO		4 PCS	(R507, R616, R610, R645)
16	EA03-0101JB-B30	(100 Ω ±5% 1/16W 0402)	RC0402JR-07100R	YAGEO		3 PCS	(R608, R613, R625)
17	EA03-0431JB-B30	(430 Ω ±5% 1/16W 0402)	RC0402JR-07430R	YAGEO		2 PCS	(R313, R314)
18	EA03-0102JB-B30	(1K Ω ±5% 1/16W 0402)	RC0402JR-071K	YAGEO		18 PCS	(R104, R203, R207, R217, R301, R302, R329,) (R501, R506, R611, R614, R615, R619, R618,)
19						0	(R620, R621, R622, R623)
20	EA03-0152JB-B30	(1.5K Ω ±5% 1/16W 0402)	RC0402JR-071K5	YAGEO		4 PCS	(R206, R216, R224, R322)
21	EA03-0222JB-B30	(2.2K Ω ±5% 1/16W 0402)	RC0402JR-072K2	YAGEO		4 PCS	(R509 R510 R511 R512)
22	EA03-0392JB-B30	(3.9K Ω ±5% 1/16W 0402)	RC0402JR-073K9	YAGEO		1 PCS	(R118)
23	EA03-0103JB-B30	(10K Ω ±5% 1/16W 0402)	RC0402JR-0710K	YAGEO		4 PCS	(R225, R529, R221, R219)
24	EA03-0243JB-B30	(24K Ω ±5% 1/16W 0402)	RC0402JR-0724K	YAGEO		1 PCS	(R111)
25	EA03-0273JB-B30	(27K Ω ±5% 1/16W 0402)	RC0402JR-0727K	YAGEO		2 PCS	(R213, R531)

26	EA03-0104JB-B30	(100K Ω $\pm 5\%$ 1/16W 0402)	RC0402JR-07100K	YAGEO		11	PCS	(R107, R121, R201, R212, R 304 R305) (R306 R307, R310 R311 R624)
27	EB02-10FC8A-B20	1pr $\pm 0.1\%$ 50V COG	GRM1555C1H1R0CA01D	MURATA		1	PCS	(C521)
28	EB02-60FC8A-B60	10pr $\pm 0.1\%$ 50V COG	CC0402CRNP09BN6R0	YAGEO	3	2	PCS	(C548, C552)
29	EB02-60FC8A-B20	10pr $\pm 0.1\%$ 50V COG	GRM1555C1H6R0CA01D	MURATA	3	2	PCS	()
30	EB02-70FC8A-B60	10pr $\pm 0.1\%$ 50V COG	CC0402CRNP09BN7R0	YAGEO	4	2	PCS	(C523, C524)
31	EB02-70FC8A-B20	10pr $\pm 0.1\%$ 50V COG	GRM1555C1H7R0CA01D	MURATA	4	2	PCS	()
32	EB02-120J8A-B21	12pr $\pm 0.1\%$ 50V COG	GRM1555C1H120JZ01D	MURATA	5	3	PCS	(C401 C402, C404)
33	EB02-120J8A-B60	12pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN120	YAGEO	5	3	PCS	()
34	EB02-180J8A-B60	18pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN180	YAGEO	6	2	PCS	(C527, C528)
35	EB02-180J8A-B21	18pr $\pm 0.1\%$ 50V COG	GRM1555C1H180JA01D	MURATA	6	2	PCS	()
36	EB02-220J8A-B60	(22pF $\pm 5\%$ 50V COG 0402)	CC0402JRN09BN220	YAGEO	7	11	PCS	(C101 C102, C201 C202, C208, C 212,) (C539, C542 C543, C549, C 555)
37	EB02-220J8A-B20	(22pF $\pm 0.1\%$ 50V COG 0402)	GRM1555C1H220JA01D	MURATA	7	11	PCS	()
38	EB02-270J8A-B60	(27pF $\pm 5\%$ 50V COG 0402)	CC0402JRN09BN270	YAGEO	8	8	PCS	(C203, C220, C227, C230 C231 C232, C234 C235)
39	EB02-270J8A-B21	(27pF $\pm 0.1\%$ 50V COG 0402)	GRM1555C1H270JA01D	MURATA	8	8	PCS	()
40	EB02-330J8A-B60	(33pF $\pm 5\%$ 50V COG 0402)	CC0402JRN09BN330	YAGEO	9	5	PCS	(C317 C318, C514, C 517, C546)
41	EB02-330J8A-B20	(33pF $\pm 0.1\%$ 50V COG 0402)	GRM1555C1H330JA01D	MURATA	9	5	PCS	()
42	EB02-390J8A-B21	39pr $\pm 0.1\%$ 50V COG	GRM1555C1H390JZ01D	MURATA	10	2	PCS	(C501, C506)
43	EB02-390J8A-B60	39pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN390	YAGEO	10	2	PCS	()
44	EB02-470J8A-B60	47pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN470	YAGEO	11	1	PCS	(C130)
45	EB02-470J8A-B20	47pr $\pm 0.1\%$ 50V COG	GRM1555C1H470JA01D	MURATA	11	1	PCS	()
46	EB02-560J8A-B20	56pr $\pm 0.1\%$ 50V COG	GRM1555C1H560JA01D	MURATA	12	3	PCS	(C540, C560 C561)
47	EB02-560J8A-B60	56pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN560	YAGEO	12	3	PCS	()
48	EB02-820J8A-B60	82pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN820	YAGEO	13	2	PCS	(C503, C516)
49	EB02-820J8A-B20	82pr $\pm 0.1\%$ 50V COG	GRM1555C1H820JA01D	MURATA	13	2	PCS	()
50	EB02-101J8A-B60	100pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN101	YAGEO	14	1	PCS	(C246)
51	EB02-101J8A-B20	100pr $\pm 0.1\%$ 50V COG	GRM1555C1H101JA01D	MURATA	14	1	PCS	()
52	EB02-221J8A-B60	220pr $\pm 0.1\%$ 50V COG	CC0402JRN09BN221	YAGEO	15	1	PCS	(C553)
53	EB02-221J8A-B20	220pr $\pm 0.1\%$ 50V COG	GRM1555C1H221JA01D	MURATA	15	1	PCS	()

54	EB02-102K8D-B60	(1nF ± 10%) 50V X7R	CC0402KRX7R9BB102	YAGEO	16	3 PCS	(C132 C133, C226)
55	EB02-102K8D-B20	(100nF ± 10%) 50V X7R	GRM155R71H102KA01D	MURATA	16	3 PCS	()
56	EB02-222K8D-B20	(2.2nF ± 10%) 50V X7R	GRM155R71H222KA01D	MURATA	17	1 PCS	(C255)
57	EB02-222K8D-B60	(2.2nF ± 10%) 50V X7R	CC0402KRX7R9BB222	YAGEO	17	1 PCS	()
58	EB02-223K6D-B60	(22nF ± 10%) 25V X7R	CC0402KRX7R8BB223	YAGEO	18	1 PCS	(C210)
59	EB02-223K6D-B20	(22nF ± 10%) 25V X7R	GRM155R71E223KA61D	MURATA	18	1 PCS	()
60	EB02-333K3C-B20	(33nF ± 10%) 10V X5R	GRM155R71A333KA01D	MURATA	19	1 PCS	(C510)
61	EB02-333K8D-B20	(33nF ± 10%) 10V X7R	GRM155R71A333KA01D	MURATA	19	1 PCS	()
62	EB02-473K3D-B60	(47nF ± 10%) 10V X7R	CC0402KRX7R6BB473	YAGEO	20	1 PCS	(C115)
63	EB02-473K4D-B60	(47nF ± 10%) 16V X7R	CC0402KRX7R7BB473	YAGEO	20	1 PCS	()
64	EB02-473K3D-B20	(47nF ± 10%) 10V X7R	GRM155R71A473KZ01D	MURATA	20	1 PCS	()
65	EB02-104K3C-B60	(100nF ± 10%) 10V X5R 0402)	CC0402KRX5R6BB104	YAGEO	21	30 PCS	(C103 C104 C105 C106 C107 C108 C109,) (C113 C114, C122, C 200, C206 C207, C209,)
66	EB02-104K3C-B20	(100nF ± 10%) 10V X5R	GRM155R71A104KA01D	MURATA	21	30 PCS	()
67	EB02-104K3C-B30	(100nF ± 10%) 10V X5R	C1005X5R1A104K	TDK	21	30 PCS	()
68	EB02-224K3C-B60	(220nF ± 10%) 10V X5R	CC0402KRX5R6BB224	YAGEO	22	1 PCS	(C504)
69	EB02-224K3C-B21	(220nF ± 10%) 10V X5R	GRM155R61A224KA01D	MURATA	22	1 PCS	()
70	EB02-105K2C-B60	(1uF ± 10%) 6.3V X5R 0402)	CC0402KRX5R5BB105	YAGEO	23	7 PCS	(C612, C624, C112, C120, C 124, C228 C229)
71	EB02-105K2C-B40	(1uF ± 10%) 6.3V X5R	JMK105BJ105KV-F	TAIYO	23	7 PCS	()
72	EB02-105K2C-B20	(100nF ± 10%) 6.3V X5R	GRM155R60J105KE19D	MURATA	23	7 PCS	()
73	EB02-105K2C-B30	(100nF ± 10%) 6.3V X5R	C1005X5R0J105KT	TDK	23	7 PCS	()
74	EB02-105K4C-C20	(100nF ± 10%) 16V X5R	GRM188R61C105KA12D	MURATA	24	2 PCS	(C621, C623)
75	EB02-105K4C-C60	(100nF ± 10%) 16V X5R	CC0603KRX5R7BB105	YAGEO	24	2 PCS	()
76	EB02-105Z8D-D30	(100nF ± 10%) 20% 50V Y5V 0805) height	C2012Y5V1H105ZT0JON	TDK		1 PCS	(C622)
77	EB02-105K2C-C20	(100nF ± 10%) 6.3V X5R	GRM188R61A105KA61D	MURATA	25	1 PCS	(C613)
78	EB02-105K2C-C40	(100nF ± 10%) 6.3V X5R	JMK107BJ105KA	TAIYO	25	1 PCS	()
79	EB02-105K3C-C30	(100nF ± 10%) 10V X5R	C1608X5R1A105KT000E	TDK	25	1 PCS	()
80	EB02-105Z4E-D60	(100nF ± 10%) 20% 16V Y5V	CC0805ZRY5V7BB105	YAGEO	26	1 PCS	(C129)
81	EB02-105Z4E-D22	(1uF ± 80% - 20%) 1uF +80%-20%	EMK212F105ZD	TAIYO	26	1 PCS	()
82	EB02-105Z4E-D21	(100nF ± 10%) 20% 16V Y5V	GRM219F51C105ZA01D	MURATA	26	1 PCS	()
83	EB02-225K2C-C20	(2.2uF ± 10%) 6.3V X5R 0603)	GRM188R60J225KE19D	MURATA	27	6 PCS	(C126 C127 C128, C134, C 221, C204)

84	EB02-225K3C-C21	(2.2uF ± 10%) 10V X5R	GRM188R61A225KE34D	MURATA	27	6 PCS	()
85	EB02-225K2C-C41	(2.2uF ± 10%) 6.3V X5R	JMK107BJ225KA	TAIYO	27	6 PCS	()
86	EB02-225K2C-C30	(2.2uF ± 10%) 6.3V X5R	C1608X5R0J225K	TDK	27	6 PCS	()
87	EB02-475K2C-C40	(4.7uF ± 10%) 6.3V X5R	JMK107BJ475KA-T	TAIYO	28	5 PCS	(C111, C123, C125, C311, C536)
88	EB02-475K2C-C22	(4.7uF ± 10%) 6.3V X5R	GRM188R60J475KE19D	MURATA	28	5 PCS	()
89	EB02-475K2C-C30	(4.7uF ± 10%) 6.3V X5R	C1608X5R0J475K	TDK	28	5 PCS	()
90	EB02-106K2C-D40	(10uF ± 10%) 6.3V X5R	JMK212 BJ106KD-T	TAIYO	29	5 PCS	(C214, C215, C314, C315, C139)
91	EB02-106K2C-D21	(10uF ± 10%) 6.3V X5R	GRM219R60J106KE19D	MURATA	29	5 PCS	()
92	EC02-15HSB1-000	(1.5nH ± 0.3nH 0402)	LQG15HS1N5S02D	MURATA	30	2 PCS	(L533, C533)
93	EC02-15HSB2-000	(1.5nH ± 0.3nH 0402)	SDCL1005C1N5STDF	SUNLORD	30	2 PCS	()
94	EC02-43HSB1-000	(4.3nH ± 0.3nH 0402)	LQG15HS4N3S02D	MURATA	31	1 PCS	(L513)
95	EC02-43HSB2-000	(4.3nH ± 0.3nH 0402)	SDCL1005C4N3STDF	SUNLORD	31	1 PCS	()
96	EC02-47HSB1-000	(4.7nH ± 0.3nH 0402)	LQG15HS4N7S02D	MURATA	32	1 PCS	(L532)
97	EC02-47HSB2-000	(4.7nH ± 0.3nH 0402)	SDCL1005C4N7STDF	SUNLORD	32	1 PCS	()
98	EC02-15TJB1-001	(15nH ± 5%) (15nH ± 5%)	LQG15HS15NJ02D	MURATA	33	1 PCS	(L512)
99	EC02-15TJB2-000	(15nH ± 5%) (15nH ± 5%)	SDCL1005C15NJTDF	SUNLORD	33	1 PCS	()
100	EC02-18TJB1-001	(18nH ± 5%) (18nH ± 5%)	LQW15AN18NJ00D	MURATA	34	1 PCS	(L203)
101	EC02-18TJB4-000	(18nH ± 5%) (18nH ± 5%)	MLK1005S18NJ	TDK	34	1 PCS	()
102	EC02-18TJB3-000	(18nH ± 5%) (18nH ± 5%)	HK1005 18NJ-T	TAIYO	34	1 PCS	()
103	EB01-476M20-T60	(47uF ± 20%) 6.3V T	T520T476M006ATE070	KEMET		1 PCS	(C547)
104	EB01-476M20-B70	(+/- 20%, 6.3V, B)	F920J476MBA	NICHICON	35	1 PCS	()
105	ED01-UDZS56-000	Diode	UDZSNPTE-175.6B	ROHM		1 PCS	(D102)
106	ED01-RB520S-000	Diode	RB520S-30FJTE61	ROHM	36	1 PCS	(D601)
107	ED01-1SS420-000	Diode	1SS420	TOSHIBA	36	1 PCS	()
108	ED01-SDM20U-000	Diode	SDM20U40-7	DIODES	36	1 PCS	()
109	ED05-RJU002-000	(MOSFET N-channel)	RJU002N06T106	ROHM	37	1 PCS	(Q602)
110	ED05-2N7002-000	(MOSFET N-channel)	2N7002WT1G	ONSEMI	37	1 PCS	()
111	EI03-CMXB04-000	Connector (10 SIM)	CM-XB-043010	N/A		1 PCS	(J302)
112	EI05-S1MMS0-000	Connector (SIM)	CAF99-06183-1503	LCN	38	1 PCS	(J401)
113	EI05-S1M046-001	Connector (RF)	SIM04-6K33210	SG	38	1 PCS	()
114	EI06-MM8430-003	Connector	MM8430-2600RB3	MURATA	39	1 PCS	(J501)
115	EI06-MM8430-001	RF Connector	MM8430-2610RB3	MURATA	39	1 PCS	()
116	EC05-BLM15B-002	Bead	BLM15BB750SN1D	MURATA	40	5 PCS	(L507, L508, L511, B601, B602)
117	EC05-SZ1005-005	Bead	SZ1005G750TF	SUNLORD	40	5 PCS	()
118	EC05-BLM18H-001	Bead	BLM18HD102SN1D	MURATA	41	2 PCS	(B101, B102)
119	EC05-HZ1608-000	Bead	HZ1608K102TF	SUNLORD	41	2 PCS	()
120	EC05-BLM18D-000	Bead	BLM18BD252SN1D	MURATA	42	1 PCS	(L301)
121	EC05-SZ1608-002	Bead	SZ1608K252T	SUNLORD	42	1 PCS	()
122	EC05-BLM15B-004	Bead (1K Ohm/100Mhz)	BLM15BD102SN1D	MURATA	43	3 PCS	(B301, B302, B303)

123	EC05-SZ1005-003	Bead1000 ohm@100MHz, R DC:1.2ohm, Ir	SZ1005K102TF	SUNLORD	43	3 PCS	()
124	EI03-CMXB57-000	100mA battery	CM-XB-573010			1 PCS	(J103)
125	EI23-TFS228-000	1-FLASH	TFS22-8K72000	SINGEEN	44	1 PCS	(J301)
126	EI23-BLTF00-000	1-FLASH Connector	BLTF-008-003J		44	1 PCS	()
127	EA06-AVLC5S-000	(5V, 1A, 50PF, -55Ω)	AVLC5S02050	AMOTECH	45	14 PCS	(T202 T203 T204 T205 T206 T207, T301,) (T309, , T311 T312 T313 T314 T315 T316)
128	EA06-VP0T0-000	(10PF VDC=5.5V 440PF	VP0T0402100MV05	INPAQ	45	14 PCS	()
129	EA06-VS1005-000	VDC=5.5V 440PF	VS10-050A-400JT	CTC	45	14 PCS	()
130	EG08-MT6223-003	BB Chip	MT6223DA-L	MTK		1 PCS	(U101)
131	EG07-AD6548-000	RF Chip	AD6548	MTK		1 PCS	(U501)
132	EG01-S71GL0-007	Memory 64+32	S71GL064NB0BHW0Z0	SPANSION		1 PCS	(U300)
133	EG12-AR1010-000	FM Chip	AR1010	AIROHA		1 PCS	(U202)
134	EF01-BL6212-000	Audio Amplifier	BL6212CP	BELLING	46	1 PCS	(U201)
135	EF01-CP2290-000	Audio Amplifier	CP2290GITLX	CHIPHOMER	46	1 PCS	()
136	ED05-DMS212-000	MOSFET	DMS2120LFWB	DIODES	47	1 PCS	(U102)
137	ED05-S15853-002	MOSFET	SI5853DDC-T1-E3	VISHAY	47	1 PCS	()
138	ED05-TPCF8B-000	MOSFET-- No use	TPCF8B01	TOSHIBA	47	1 PCS	()
139	EH01-A0T060-000	Led diode(Blue)	A0T-0603BL31A-N0-N-3- M	A0T		6 PCS	(D101, D103 D104 D105 D106 D107)
140	EF01-RF7167-000	RFFEM	RF7167	RFMD		1 PCS	(U502)
141	EF06-7M2600-003	Crystal (CALU2 6MHz 3.2×	7M260000018	TXC	48	1 PCS	(U504)
142	EF06-X3S026-000	Crystal (CALU2 6MHz 3.2×	X3S026000B71HZ-NHPZ	HARMONY	48	1 PCS	()
143	EF06-TZ1387-000	Crystal (CALU2 6MHz 3.2×	TZ1387A	TAISAW	48	1 PCS	()
144	EF06-X1E000-001	Crystal (CALU2 6MHz 3.2×	X1E000021031400	EPSON-TOYOC	48	1 PCS	()
145	EF06-Q13MC1-000	Crystal--No use	Q13MC1461000200	EPSON	49	1 PCS	(X101)
146	EF06-MS3VT1-000	Crystal	MS3V-T1R	MICROCRYSTA	49	1 PCS	()
147	EE01-SAFEA8-000	Filter	SAFEA881MFLOF00R14	MURATA		1 PCS	(Z502)
148	EE01-SAFEA1-001	Filter	SAFEA1G96FA0F00R12	MURATA		1 PCS	(Z504)
149	N203-516000-000	EI23 RF chipdB				1 PCS	(S1)
150	N202-516000-000	EI23 dB				1 PCS	(S2)
151	N102-516A00-012	PCRYSheng vi EI23	V1.0		50	1 PCS	()
152	N102-516A00-002	PCRYFayconn Combo	V1.0		50	1 PCS	()
153	P325-000000-100	Resistor Mark (330R±10%				1 PCS	()
154	EB02-333K4D-B60	16V X7R 440PF	CC0402KRX7R7BB333	YAGEO	19	1 PCS	
155	EF06-Q13MC1-001	crystal	Q13MC1462000200	EPSON	49	1 PCS	
156	ED05-WPM200-002	MOSFET	WPM2005B-8/TR	WILLSEMI	47	1 PCS	
157	EF01-SN4990-000	Audio Amplifier	SN4990AIF09E	SI-EN	46	1 PCS	