

Part	Used	PartType	Designators
1	1	0.01uF	C4
2	4	0.1uF	C10 C11 C14 C15
3	2	0.01uF	C17 C21
4	3	1K	R9 R13 R23
5	1	1M	R11
6	3	1N4148	D1 D3 D10
7	1	1N4936	D6
8	1	2N2369A	Q1
9	2	2N3904	Q2 Q4
10	1	2N3906	Q3
11	2	2N7002	Q6 Q7
12	1	8.0 MHz	Y1
13	1	10K	R2
14	3	10uF, 16V	C2 C12 C20
15	1	10uF, 25V	C3
16	1	33K	R12
17	1	47pF	C1
18	1	56pF	C18
19	1	100	R6
20	4	100K	R8 R14 R30 R31
21	2	150K	R5 R10
22	1	180K	R3
23	1	220K	R7
24	1	470K	R24
25	1	470pF	C8
26	2	680	R21 R22
27	3	820	R4 R18 R20
28	2	1000pF	C6 C13
29	1	1000pF, 5%, 500V	C7
30	1	2200pF	C16
31	1	2200pF, 5%, 500V	C5
32	1	2200pF, 10%, 500V	C9
33	1	HEADER 2	JP1
34	1	HEADER 11	JP4
35	1	LED-BI	LED1
36	1	LP2951	U1
37	1	MC33074D	U2
38	1	PIC16F84-10	U4
39	1	PKM17EPP	BZ1
40	1	SAT	C19
41	4	SMBJ5.0A	D11 D12 D14 D15
42	1	SMBJ15	D4
43	1	SN74HC4024	U3
44	1	TP	TP1

DESIGNATOR	GENERIC NUMBER	PART NUMBER	SPECIFICATION	VENDOR	FOOTPRINT
C4	0.01uF	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
C10	0.1uF	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C11	0.1uF	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C14	0.1uF	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C15	0.1uF	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C17	0.01uF	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
C21	0.01uF	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
R9	1K	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
R13	1K	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
R23	1K	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
R11	1M	RC1206GR07-105	5%, 1/4W, 200PPM	YAGEO	1206A
D1	1N4148	LL4148	GP	LITEON	MELF-M
D3	1N4148	LL4148	GP	LITEON	MELF-M
D10	1N4148	LL4148	GP	LITEON	MELF-M
D6	1N4936	DL4936	1 AMP, 400V	LITEON	MELF-DL
Q1	2N2369A	MMBT2369	GP	MOTO	SOT-23A
Q2	2N3904	MMBT3904	GP	LITNON	SOT-223T
Q4	2N3904	MMBT3904	GP	LITEON	SOT-23A
Q3	2N3906	MMBT3906	GP	LITEON	SOT-223T
Q6	2N7002	2N7002	N-MOS	VISHAY	SOT-23FET
Q7	2N7002	2N7002	N-MOS	VISHAY	SOT-23FET
Y1	8.0 MHz	EFO-V8004E5	8 MHz	PANASONIC	EFO-P
R2	10K	RC1206GR07-103	5%, 1/4W, 200PPM	YAGEO	1206A
C2	10uF, 16V	TAJC106K016R	10uF, 16V,10%,6032	AVX	1210P
C12	10uF, 16V	TAJC106K016R	10uF, 16V,10%,6032	AVX	1210P
C20	10uF, 16V	TAJC106K016R	10uF, 16V,10%,6032	AVX	1210P
C3	10uF, 25V	TAJD106K025R	10uF, 25V, 10%	AVX	7243
R12	33K	RC1206GR07-333	5%, 1/4W, 200PPM	YAGEO	1206A
C1	47pF	C0805N470J05T	47pF, 5%,50V	DURAN	0805A
C18	56pF	C0805N560J05T	56pF, 5%,50V	DURAN	0805A
R6		100 RC0402GR07-101	5%, 1/4W, 200PPM	YAGEO	402
R8	100K	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R14	100K	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R30	100K	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R31	100K	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R5	150K	RC1206GR07-154	5%, 1/4W, 200PPM	YAGEO	1206A
R10	150K	RC1206GR07-154	5%, 1/4W, 200PPM	YAGEO	1206A
R3	180K	RC1206GR07-184	5%, 1/4W, 200PPM	YAGEO	1206A
R7	220K	RC1206GR07-224	5%, 1/4W, 200PPM	YAGEO	1206A
R24	470K	RC1206GR07-474	5%, 1/4W, 200PPM	YAGEO	1206A
C8	470pF	C0805N471J05T	470pF, 5%, 50V	DURAN	0805A
R21		680 RC1206GR07-681	5%, 1/4W, 200PPM	YAGEO	1206A
R22		680 RC1206GR07-681	5%, 1/4W, 200PPM	YAGEO	1206A
R4		820 RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
R18		820 RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
R20		820 RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
C6	1000pF	C0805N102J05T	1000pF, 5%, 50V	DURAN	0805A
C13	1000pF	C0805N102J05T	1000pF, 5%, 50V	DURAN	0805A
C7	1000pF, 5%, 500V	1206C102JU501	1000pF, 5%, 500V	VENKEL	1210

C16	2200pF	C0805X222J05T	2200pF, 10%, 50V	DURAN	0805A
C5	2200pF, 5%, 500V	1210C222JU501	2200pF, 5%, 500V	VENKEL	1210
C9	2200pF, 10%, 500V	1210C222KU501	2200pF, 10%, 500V	VENKEL	1210
JP1	HEADER 2	ETCHED	2 PLC, SOLDERED	AWID	SIP2
JP4	HEADER 11	ETCHED	11 PLC, SOLDERED	AWID	SIP11
LED1	LED-BI	L59EGW	1-GRN,3-RED, 25MA	KINGBRIGHT	LED-LN
U1	LP2951	LP2951CM	5V REG,SMT	NS	SO-8
U2	MC33074D	MC33074D	OP AMP, QUAD	MOTO	SO-14
U4	PIC16F84-10	PIC16F84-10/SO	CPU,	MICROCHIP	SOL-18
BZ1	PKM17EPP	PE17P40AA-10A	4KHz, BUZZER	ARIOSE	BZ
C19	SAT	TBD	TBD	AWID	1210
D11	SMB5.0A	SMBJ5.0A	5V, 600W	LITEON	LITE-SMB
D12	SMB5.0A	SMBJ5.0A	5V, 600W	LITEON	LITE-SMB
D14	SMB5.0A	SMBJ5.0A	5V, 600W	LITEON	LITE-SMB
D15	SMB5.0A	SMBJ5.0A	5V, 600W	LITEON	LITE-SMB
D4	SMBJ15	SMBJ15	15V, 600W	LITEON	LITE-SMB
U3	SN74HC4024	SN74HC4024D	7-BIT BINA COUNTER	TI	SO-14
TP1	TP	ETCHED	1-PLC	AWID	TP-001