

Part	Used	PartType	Designators

1	1		
2	1	0.01uF	C4
3	3	0.1uF	C11 C14 C15
4	1	0.01uF	C17
5	1	0.1uF	C21
6	2	0.01uF	C22 C23
7	1	1.8K	R17
8	3	1K	R13 R23 R25
9	1	1M	R11
10	5	1N4148	D1 D3 D5 D9 D10
11	1	1N4936	D6
12	1	2N2369A	Q1
13	2	2N3904	Q2 Q4
14	2	2N3906	Q3 Q5
15	2	2N7002	Q6 Q7
16	1	4.7K	R15
17	1	8.0 MHz	Y1
18	2	10K	R2 R19
19	4	10uF, 16V	C2 C10 C12 C20
20	1	10uF, 25V	C3
21	2	22K	R6 R16
22	2	33	R28 R29
23	1	33K	R12
24	1	56pF	C18
25	4	100K	R8 R14 R30 R31
26	2	150K	R5 R10
27	1	180K	R3
28	1	220K	R26
29	1	330	R9
30	2	470K	R7 R24
31	1	470pF	C8
32	2	560	R21 R22
33	1	680	R27
34	3	820	R4 R18 R20
35	1	820pF	C1
36	2	1000pF	C6 C13
37	1	1000pF, 500V, 5%	C7
38	1	2200pF	C16
39	2	2200pF, 500V, 5%	C5 C9
40	2	HEADER 2	JP1 JP2
41	1	HEADER 5	JP3
42	1	HEADER 10	JP4
43	1	LED-BI	LED1
44	1	LP2951	U1
45	1	MC33074D	U2
46	1	PIC16F84-10	U4
47	1	PKM17EPP	BZ1

48	1	SAT	C19
49	5	SMB5.0A	D11 D12 D13 D14 D15
50	2	SMBJ12C	D7 D8
51	1	SMBJ15	D4
52	1	SN74HC4024	U3
53	1	TP	TP1

DESIGNATOR	GENERIC NUMBER	GEN DESCRIPTION	PART NUMBER	SPECIFICATION	VENDOR	FOOTPRINT
C4	0.01uF	CAP, CHIP	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
C11	0.1uF	CAP, CHIP	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C14	0.1uF	CAP, CHIP	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C15	0.1uF	CAP, CHIP	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C17	0.01uF	CAP, CHIP	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
C21	0.1uF	CAP, CHIP	C0805X104K05T	0.1uF, 10%, 50V	DURAN	0805A
C22	0.01uF	CAP, CHIP	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
C23	0.01uF	CAP, CHIP	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
R17	1.8K	RES, CHIP	C0805X103K05T	.01uF, 10%, 50V	DURAN	0805A
R13	1K	RES, CHIP	RC1206GR07-182	5%, 1/4W, 200PPM	YAGEO	1206A
R23	1K	RES, CHIP	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
R25	1K	RES, CHIP	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
R11	1M	RES, CHIP	RC1206GR07-102	5%, 1/4W, 200PPM	YAGEO	1206A
D1	1N4148	DIODE, GP	RC1206GR07-105	5%, 1/4W, 200PPM	YAGEO	1206A
D3	1N4148	DIODE, GP	LL4148	GP	LITEON	MELF-M
D5	1N4148	DIODE, GP	LL4148	GP	LITEON	MELF-M
D9	1N4148	DIODE, GP	LL4148	GP	LITEON	MELF-M
D10	1N4148	DIODE, GP	LL4148	GP	LITEON	MELF-M
D6	1N4936	DIODE, HV	DL4936	1 AMP, 400V	LITEON	MELF-M
Q1	2N2369A	XTR, NPN	MMBT2369	GP	MOTO	MELF-DL
Q2	2N3904	XTR, NPN	MMBT3904	GP	LITNOR	SOT-23A
Q4	2N3904	XTR, NPN	MMBT3904	GP	LITNOR	SOT-223T
Q3	2N3906	XTR, PNP	MMBT3906	GP	LITEON	SOT-23A
Q5	2N3906	XTR, PNP	MMBT3906	GP	LITEON	SOT-223T
Q6	2N7002	XTR, FET	MMBT3906	GP	LITEON	SOT-23A
Q7	2N7002	XTR, FET	2N7002	N-MOS	VISHAY	SOT-23FET
R15	2N7002	XTR, FET	2N7002	N-MOS	VISHAY	SOT-23FET
Y1	4.7K	RES, CHIP	RC1206GR07-472	5%, 1/4W, 200PPM	YAGEO	1206A
R2	8.0 MHz	RETNOR, CERMA	EFO-S8004E5	8 MHz	PANASONIC	EFO-P
R19	10K	RES, CHIP	RC1206GR07-103	5%, 1/4W, 200PPM	YAGEO	1206A
C2	10uF, 16V	RES, CHIP	RC1206GR07-103	5%, 1/4W, 200PPM	YAGEO	1206A
C10	10uF, 16V	CAP, TANT	TAJ106K016R	10uF, 16V, 10%, 6032	AVX	1210P
C12	10uF, 16V	CAP, TANT	TAJ106K016R	10uF, 16V, 10%, 6032	AVX	1210P
C20	10uF, 16V	CAP, TANT	TAJ106K016R	10uF, 16V, 10%, 6032	AVX	1210P
C3	10uF, 25V	CAP, TANT	TAJ106K025R	10uF, 25V, 10%	AVX	1210P

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R6	22K	RES, CHIP	RC1206GR07-223	5%, 1/4W, 200PPM	YAGEO	1206A
R16	22K	RES, CHIP	RC1206GR07-223	5%, 1/4W, 200PPM	YAGEO	1206A
R28		33 RES, CHIP	RC1206GR07-330	5%, 1/4W, 200PPM	YAGEO	1206A
R29		33 RES, CHIP	RC1206GR07-330	5%, 1/4W, 200PPM	YAGEO	1206A
R12	33K	RES, CHIP	RC1206GR07-333	5%, 1/4W, 200PPM	YAGEO	1206A
C18	56pF	CAP, CHIP	C0805N560J05T	56pF, 5%, 50V	DURAN	0805A
R8	100K	RES, CHIP	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R14	100K	RES, CHIP	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R30	100K	RES, CHIP	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R31	100K	RES, CHIP	RC1206GR07-104	5%, 1/4W, 200PPM	YAGEO	1206A
R5	150K	RES, CHIP	RC1206GR07-154	5%, 1/4W, 200PPM	YAGEO	1206A
R10	150K	RES, CHIP	RC1206GR07-154	5%, 1/4W, 200PPM	YAGEO	1206A
R3	180K	RES, CHIP	RC1206GR07-184	5%, 1/4W, 200PPM	YAGEO	1206A
R26	220K	RES, CHIP	RC1206GR07-224	5%, 1/4W, 200PPM	YAGEO	1206A
R9		330 RES, CHIP	RC1206GR07-331	5%, 1/4W, 200PPM	YAGEO	1206A
R7	470K	RES, CHIP	RC1206GR07-474	5%, 1/4W, 200PPM	YAGEO	1206A
R24	470K	RES, CHIP	RC1206GR07-474	5%, 1/4W, 200PPM	YAGEO	1206A
C8	470pF	CAP, CHIP	C0805N471J05T	470pF, 5%, 50V	DURAN	0805A
R21		560 RES, CHIP	RC1206GR07-561	5%, 1/4W, 200PPM	YAGEO	1206A
R22		560 RES, CHIP	RC1206GR07-561	5%, 1/4W, 200PPM	YAGEO	1206A
R27		680 RES, CHIP	RC1206GR07-681	5%, 1/4W, 200PPM	YAGEO	1206A
R4		820 RES, CHIP	RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
R18		820 RES, CHIP	RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
R20		820 RES, CHIP	RC1206GR07-821	5%, 1/4W, 200PPM	YAGEO	1206A
C1	820pF	CAP, CHIP	C0805N821J05T	820pF, 5%, 50V	DURAN	0805A
C6	1000pF	CAP, CHIP	C0805N102J05T	1000pF, 5%, 50V	DURAN	0805A
C13	1000pF	CAP, CHIP	C0805N102J05T	1000pF, 5%, 50V	DURAN	0805A
C7	1000pF, 500V, 5%	CAP, CHIP	1206C102JU501	1000pF, 5%, 500V	SPECTRUM	1210
C16	2200pF	CAP, CHIP	C0805X222J05T	2200pF, 5%, 50V	DURAN	0805A
C5	2200pF, 500V, 5%	CAP, CHIP	1210C222JU501	2200pF, 5%, 500V	SPECTRUM	1210
C9	2200pF, 500V, 5%	CAP, CHIP	1210C222JU501	2200pF, 500V, 5%	SPECTRUM	1210
JP1	HEADER 2	CONN-2	ETCHED	2 PLC, SOLDERED	AWID	SIP2
JP2	HEADER 2	CONN-2	ETCHED	2 PLC, SOLDERED	AWID	SIP2
JP3	HEADER 5	CONN-5	ETCHED	5PLC, SOLDERED	AWID	SIP5
JP4	HEADER 10	CONN-10	ETCHED	10 PLC	AWID	SIP10
LED1	LED-BI	LED, RED-GRN	L59EGW	1-GRN,3-RED, 25MA	KINGBRIGHT	LED-LN
U1	LP2951	IC, LINEAR	LP2951CM	5V REG,SMT	NS	SO-8

U2	MC33074D	IC, OP AMP	MC33074D	QUAD	MOTO	SO-14
U4	PIC16F84-10	IC, LOGIC	PIC16F84-10/SO	CPU,	MICROCHIP	SOL-18
BZ1	PKM17EPP	BUZ, CERAMIC	PE17P40AA-10A	4KHz, BUZZER	ARIOSE	BZ
C19	SAT	CAPACITOR	TBD	TBD	AWID	1210
D11	SMB5.0A	DIODE, TVS	SMBJ5.0A	5V, 600W	TSC	LITE-SMB
D12	SMB5.0A	DIODE, TVS	SMBJ5.0A	5V, 600W	TSC	LITE-SMB
D13	SMB5.0A	DIODE, TVS	SMBJ5.0A	5V, 600W	TSC	LITE-SMB
D14	SMB5.0A	DIODE, TVS	SMBJ5.0A	5V, 600W	TSC	LITE-SMB
D15	SMB5.0A	DIODE, TVS	SMBJ5.0A	5V, 600W	TSC	LITE-SMB
D7	SMBJ12C	DIODE, TVS	SMBJ12CA	12V, 600W	VISHAY	LITE-SMB
D8	SMBJ12C	DIODE, TVS	SMBJ12CA	12V, 600W	VISHAY	LITE-SMB
D4	SMBJ15	DIODE, ZENER	MZ4749ACT	24V, 1W	LITEON	LITE-SMB
U3	SN74HC4024	IC, LOGIC	SN74HC4024D	7-BIT BINA COUNTER	TI	SO-14
TP1	TP	TEST POINT	ETCHED	1-PLC	AWID	TP-001