

Part Type	Designator	Footprint	Part Description	Part Number	Digi-Key	Mouser
0.1uF	C5	0.15"	0.1uF 50V ceramic Z5U radial	Kemet K104M15Z5UF5TH5	BC1133CT	*
0.1uF	C2	0.15"	0.1uF 50V ceramic Z5U radial	Kemet K104M15Z5UF5TH5	BC1133CT	*
0.47uF	C4	0.6"	0.47uF 25V with 0.6" lead-spacing	Vishay Roederstein MKT 1822-477-01	*	75-MKT1822447014
1.2K	R20	0.5"	1.2K 1/4W 1% Metal Film	Vishay Dale RN60D-F-1.21K	*	71-RN60D-F-1.21K
1M	R44	0.5"	1M 1/4W 1% Metal Film	Vishay Dale RN60D-F-1M	*	71-RN60D-F-1M
2SA1145	Q9	TO-92	*	Toshiba 2SA1145	*	*
2SA1145	Q13	TO-92	*	Toshiba 2SA1145	*	*
2SA1145	Q10	TO-92	*	Toshiba 2SA1145	*	*
2SA1349	DQ4	2-10M1B	*	Toshiba 2SA1349	*	*
2SA1358	Q6	2-8H1A	*	Toshiba 2SA1358	*	*
2SA1358	Q5	2-8H1A	*	Toshiba 2SA1358	*	*
2SA1358	Q8	2-8H1A	*	Toshiba 2SA1358	*	*
2SA1358	Q7	2-8H1A	*	Toshiba 2SA1358	*	*
2SC2705	Q11	TO-92	*	Toshiba 2SC2705	*	*
2SC2705	Q12	TO-92	*	Toshiba 2SC2705	*	*
2SC2705	Q14	TO-92	*	Toshiba 2SC2705	*	*
2SC3381	DQ1	2-10M1B	*	Toshiba 2SC3381	*	*
2SC3421	Q3	2-8H1A	*	Toshiba 2SC3421	*	*
2SC3421	Q4	2-8H1A	*	Toshiba 2SC3421	*	*
2SC3421	Q1	2-8H1A	*	Toshiba 2SC3421	*	*
2SC3421	Q2	2-8H1A	*	Toshiba 2SC3421	*	*
2SJ109	DQ3	2-10M1A	*	Toshiba 2SJ109	*	*
2SK389	DQ2	2-10M1A	*	Toshiba 2SK389	*	*
3.3K	R24	0.5"	3.3K 1/4W 1% Metal Film	Vishay Dale RN60D-F-3.32K	*	71-RN60D-F-3.32K
3.3K	R19	0.5"	3.3K 1/4W 1% Metal Film	Vishay Dale RN60D-F-3.32K	*	71-RN60D-F-3.32K
5K	R29	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R39	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R37	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R31	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R27	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R43	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
5K	R36	0.5"	5K 1/4W 1% Metal Film	Vishay Dale RN60D-F-4.99K	*	71-RN60D-F-4.99K
10K	POT	0.1" SIP3	10K 3/8" Square Top-Adjust TrimPot	Bourns 3299 Series with Top-Adjust	*	652-3299W-1-103
10K	R28	0.5"	10K 1/4W 1% Metal Film	Vishay Dale RN60D-F-10K	*	71-RN60D-F-10K
10K	R22	0.5"	1.0K 1/4W 1% Metal Film	Vishay Dale RN60D-F-1.0K	*	71-RN60D-F-1.0K
10K	R38	0.5"	10K 1/4W 1% Metal Film	Vishay Dale RN60D-F-10K	*	71-RN60D-F-10K
	20 R6	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R7	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R4	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R5	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R2	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R3	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R16	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R12	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R15	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R14	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R13	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R9	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R8	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R10	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R1	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
	20 R11	0.5"	20 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-20	*	71-RN60D-F-20
30K	R42	0.5"	30K 1/4W 1% Metal Film	Vishay Dale RN60D-F-30.1K	*	71-RN60D-F-30.1K
30K	R41	0.5"	30K 1/4W 1% Metal Film	Vishay Dale RN60D-F-30.1K	*	71-RN60D-F-30.1K
33pF	C3	0.3"	33pF 5% COG	Kemet C410C330J1G or Cornell Dubiler CD15ED330J3	338-1047	80-C410C330J1G
78L15	VR1	TO-92	+15V 0.1A TO-92 voltage regulator	National LM78L15ACZ	LM78L15ACZ-ND	*
79L15	VR2	TO-92	-15V 0.1A TO-92 voltage regulator	Fairchild MC79L15ACP	*	512-MC79L15ACP
	100 R32	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	100 R33	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	100 R21	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	100 R23	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	100 R34	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	100 R35	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-100	*	71-RN60D-F-100
	300 R17	0.5"	300 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-301	*	71-RN60D-F-301
	300 R18	0.5"	300 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-301	*	71-RN60D-F-301
	300 R25	0.5"	300 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-301	*	71-RN60D-F-301
	300 R26	0.5"	100 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-301	*	71-RN60D-F-301
470uF	C6	0.2"	470uF 50V radial electrolytic	Panasonic EEUF1H471L	P-11260-ND	*
470uF	C1	0.2"	470uF 50V radial electrolytic	Panasonic EEUF1H471L	P-11260-ND	*
	500 R40	0.5"	500 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-499	*	71-RN60D-F-499
	500 R30	0.5"	500 Ohm 1/4W 1% Metal Film	Vishay Dale RN60D-F-499	*	71-RN60D-F-499
CONN-INPUT	J2	Two 0.045" holes 0.2" apart	Two 0.045" holes 0.2" apart	Phoenix Contact MKDS 1.5/2-5.08	277-1247-ND	*
CONN-OUTPUT	J3	One 0.060" hole	*	*	*	*
CONN-PWR	J1	Three 0.060" holes 0.2" apart	3-position 5.08mm terminal block	Phoenix Contact MKDS 1.5/3-5.08	277-1248-ND	*
HEATSINK FLANGE	J0		*	*	*	*
OP27	U1	DIP-8	Any low-offset DIP8 OpAmp	Analog Devices OP27EP	OP27EP-ND	*
RED LED	LED1	0.1"	Red 5mm T 1 3/4 1.7V	*	*	351-5001
RED LED	LED2	0.1"	Red 5mm T 1 3/4 1.7V	*	*	351-5001