

	value	lead rating spacing	Manufacturer #	Manufacturer:	Description	#
capacitors	C01	100nF >100V 5.1mm	140-100V9-104Z-RC	Xicon	Ceramic Disc Capacitors 100V .1uF Y5V +80%/-20% Tol	1
	C02	100nF >100V 5.1mm	140-100V9-104Z-RC	Xicon	Ceramic Disc Capacitors 100V .1uF Y5V +80%/-20% Tol	1
	C03	various >100V variety	C350C105K1R5HA	Kemet	Multilayer Ceramic Capacitors (MLCC) - Leaded C350 1uF 100volts X7R 10%	1
	C04	220pF <10V? 5.1mm	RDER71E104K0K1C03B	Murata	Multilayer Ceramic Capacitors (MLCC) - Leaded 0.1uF 25volts X7R 10%	1
	C05	100pF >100V 5.1mm	C323C101J1G5TA	Kemet	Multilayer Ceramic Capacitors (MLCC) - Leaded C323 100pF 100volts C0G 5%	1
		100uF or				
	C06	47uF >100V 4mm	UPM1J470MPD	Nichicon	Aluminum Electrolytic Capacitors - Leaded 63volts 47uF 8x11.5 20% 3.5LS	1
	C07	100nF <10V? 5.1mm	140-100V9-104Z-RC	Xicon	Ceramic Disc Capacitors 100V .1uF Y5V +80%/-20% Tol	1
	C08	47uF >100V 4.1mm	UPM1J470MPD	Nichicon	Aluminum Electrolytic Capacitors - Leaded 63volts 47uF 8x11.5 20% 3.5LS	1
	C09	47uF >100V 5mm	UPM1J470MPD	Nichicon	Aluminum Electrolytic Capacitors - Leaded 63volts 47uF 8x11.5 20% 3.5LS	1
	C10	180pF >100V 5.1mm	CD15FD181FO3F	Cornell Dubilier	Mica Capacitors 180pF 500V +/-1%	1
	C11 A&B	220uF >100V 5mm	UKW2A221MHD	Nichicon	Aluminum Electrolytic Capacitors - Leaded 100volts 220uF Radial	2
	C12 A&B	100nF >100V 5.1mm	140-100V9-104Z-RC	Xicon	Ceramic Disc Capacitors 100V .1uF Y5V +80%/-20% Tol	2
	C13	22uF >2.4V 4mm	UKZ2A220MPM	Nichicon	Aluminum Electrolytic Capacitors - Leaded 100volts 22uF 105c 10x16 5LS	1
	C14	220nF >100V 10.1mm	SR271E224MAA	AVX	Multilayer Ceramic Capacitors (MLCC) - Leaded 100volts 0.22uF 20% Z5U	1
	C15 A&B	470uF >100V 7.6mm	UKW2A471MHD	Nichicon	Aluminum Electrolytic Capacitors - Leaded 100volts 470uF Radial	2
	C16 A to D	10,000uF >80V 10mm	ESMH800VNN103MA50T	United Chemi-Con	Aluminum Electrolytic Capacitors - Snap In 10KUF 80V	4
	C17	47nF 250V 5.1mm	MKP2F024701C00JSSD	WIMA	Polypropylene Film Capacitors 250V .047uF 5%	1
resistors	R01	47k 1/4W 10.1mm	CMF5547K000FHEK	Vishay	Metal Film Resistors - Through Hole 1/4watt 47Kohms 1%	1
	R03	220 1/4W 10.1mm	271-220-RC	Xicon	Metal Film Resistors - Through Hole 220ohms 1% 50PPM	1
	R04 A&B	68 1/4W 10mm	271-68-RC	Xicon	Metal Film Resistors - Through Hole 68ohms 1% 50PPM	2
	R05 A&B	100 1/4W 10mm	CCF50100RFKR36	Vishay	Metal Film Resistors - Through Hole 1/3watts 100ohms 1%	2
	R06	220 1/4W 10mm	271-220-RC	Xicon	Metal Film Resistors - Through Hole 220ohms 1% 50PPM	1
	R07	100 1/4W 10mm	CCF50100RFKR36	Vishay	Metal Film Resistors - Through Hole 1/3watts 100ohms 1%	1
	R08 A&B	8.2k 1/4W 10mm	271-8.2K-RC	Xicon	Metal Film Resistors - Through Hole 8.2Kohms 1% 50PPM	2
	R09	390 1/4W 10.1mm	SFR16S0003900FR500	Vishay	Metal Film Resistors - Through Hole 1/2watt 390ohms 1%	1
	R10	2.2k 1/4W 10mm	RN70E2201FB14	Vishay	Metal Film Resistors - Through Hole 1/2watt 2.2Kohms 1% 25ppm	1
	R11	47k 1/4W 10mm	CMF5547K000FHEK	Vishay	Metal Film Resistors - Through Hole 1/4watt 47Kohms 1%	1
	R13	22 1/4W 10mm	RN60D22R0FB14	Vishay	Metal Film Resistors - Through Hole 1/4watt 22ohms 1% 100ppm Non Std	1
	R14	470 1/4W 14.8mm	271-470-RC	Xicon	Metal Film Resistors - Through Hole 470ohms 1% 50PPM	1
	R15	330 1/4W 10.1mm	RL07S331GB14	Vishay	Metal Film Resistors - Through Hole 1/4watt 330ohms 2%	1
	R16	470 1/4W 10mm	271-470-RC	Xicon	Metal Film Resistors - Through Hole 470ohms 1% 50PPM	1
	R17	1k 1/4W 10.1mm	271-1K RC	Xicon	Metal Film Resistors - Through Hole 1/4watt 1Kohms 1% 50PPM	1
	R19	2.2k 1/4W 10mm	RN70E2201FB14	Vishay	Metal Film Resistors - Through Hole 1/2watt 2.2Kohms 1% 25ppm	1
		variable 2.5mm &				
	R20	1k 1/4W 2.5mm	M64W102KB40	Vishay	Trimmer Resistors - Through Hole 3/8 SQ 1Kohms Multi Turn Cermet	1
	R21	680 1/4W 10mm	271-680-RC	Xicon	Metal Film Resistors - Through Hole 680ohms 1% 50PPM	1
	R22	2.7 1/4W 10.1mm	MF1/4DC2R70F	KOA Speer	Metal Film Resistors - Through Hole 2.7ohm 1% 100PPM	1
	R23 A&B	22 1/4W 10mm	RN60D22R0FB14	Vishay	Metal Film Resistors - Through Hole 1/4watt 22ohms 1% 100ppm Non Std	2
	R24 A to J	2.2 1W 10mm	PR01000102208JR500	Vishay	Metal Film Resistors - Through Hole 1watt 2.2ohms 5%	10

	R25	150	1/4W 15mm	CMF55150R00FHEK	Vishay	Metal Film Resistors - Through Hole 1/4watt 150ohms 1%	1
	R26 A to J	0.47	3W 26mm	MOSX3LT631RR47J	KOA Speer	Metal Oxide Resistors 3watts 0.47ohms 5%	10
			1W to				
	R27	10	5W 21.5mm	CPF310R000FKEE6	Vishay	Metal Film Resistors - Through Hole 3watts 10ohms 1%	1
	R28	15	3W 15.2mm	RS02B15R00FE12	Vishay	Wirewound Resistors - Through Hole 3watts 15ohms 1%	1
	R29	10	1/4W 10mm	CPF110R000FKE14	Vishay	Metal Film Resistors - Through Hole 1watt 10ohms 1%	1
	R30						1
transistors	T1 A to D	2N5401		2N5401G	ON Semiconductor	Bipolar Small Signal 500mA 160V PNP	4
	T2 A,B&C	2N5551		2N5551G	ON Semiconductor	Bipolar Small Signal 600mA 180V NPN	4
	T3 A&B	MJE15030		MJE15030G	ON Semiconductor	Bipolar Power 8A 150V 50W NPN	1
	T4	MJE15031		MJE15031G	ON Semiconductor	Bipolar Power 8A 150V 50W PNP	1
	T5	MJE15032		MJE15032G	ON Semiconductor	Bipolar Power 8A 250V 50W NPN	1
	T6	MJE15033		MJE15033G	ON Semiconductor	Bipolar Power 8A 250V 50W PNP	1
	T7 A to E	MLJ3281A		MJL3281AG	ON Semiconductor	Bipolar Power 15A 230V 200W NPN	5
	T8 A to E	MLJ1302A		MJL1302AG	ON Semiconductor	Bipolar Power 15A 230V 200W PNP	5
	D1 A to D	1N4007	7.6mm	1N4007G	ON Semiconductor	Rectifiers 1000V 1A Standard	4
	inductor wire	2.2uH	21.5mm	8049	Belden Wire & Cable	Wire - Single Conductor 18AWG 1/2LB SPOOL	1
	fuse holder		5, 15, 21mm	65600001009	Littelfuse	Fuseholders, Clips, & Hardware 5 X 20MM FUSE BLOCK	2
	terminal block	1 point	5.08mm	1706701	Phoenix Contact	Fixed Terminal Blocks 1P 5.08mm 135DEG	10
	terminal block	2 point	5.08mm	1705469	Phoenix Contact	Fixed Terminal Blocks 2P 5.08mm 40DEG	1