

4017 LED Scanner BOM								
Item #	Reference Designator	Qty	Manufacturer	Mfg Part #	Description / Value	Package/Footprint	Type	Instructions / Notes
1	C1,C12,C13	3	KEMET	C320C104K5R5TA7317	0.1 μ F \pm 10% 50V Ceramic Capacitor X7R Radial	2.5mm Radial	THRU-HOLE	
2	C2,C11	2	Panasonic	ECA-1CM100I	10 μ F 16 V Aluminum Electrolytic Capacitor Radial	2.5mm Radial	THRU-HOLE	
3	C3,C4,C5,C6,C7,C8,C9,C10	8	Panasonic	ECA-1CM470I	CAP ALUM 47UF 20% 16V RADIAL	2.5mm Radial	THRU-HOLE	
4	D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14	14	onsemi	1N4148	DIODE STANDARD 100V 200MA DO35	DO35	THRU-HOLE	Mount Vertically
5	D15,D16,D17,D18,D19,D20,D21,D22	8	Kingbright	WP7113ID	LED RED DIFFUSED T-1 3/4 T/H	T-1 3/4	THRU-HOLE	
6	J1	1	Sullins	PREC002SAAN-RC	Connector Header Through Hole 2 position 0.1"	2POS	THRU-HOLE	
7	Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10	10	onsemi	2N3904BU	TRANS NPN 40V 0.2A TO-92-3	TO-92	THRU-HOLE	
8	R1,R2,R3	3	YAGEO	CFR-25JR-52-10K	RES 10K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
9	R4	1	Bourns Inc	3362P-1-105LF	TRIMMER 1M OHM 0.5W PC PIN TOP	3PIN	THRU-HOLE	
10	R5	1	YAGEO	CFR-25JR-52-2K	RES 2K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
11	R6,R7,R8,R9,R22,R23,R24,R25	8	YAGEO	CFR-25JR-52-20K	RES 20K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
12	R10,R11,R12,R13,R26,R27,R28,R29	8	YAGEO	CFR-25JR-52-100K	RES 100K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
13	R14,R15,R16,R17,R30,R31,R32,R33	8	YAGEO	CFR-25JR-52-1K	RES 1K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
14	R18,R19,R20,R21,R34,R35,R36,R37	8	YAGEO	CFR-25JR-52-330R	RES 330 OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	Mount Vertically
15	U1	1	Texas Instruments	NE555P	IC OSC SINGLE TIMER 100KHZ 8-DIP	8DIP	THRU-HOLE	
16	U2,U3	2	Texas Instruments	CD4017BE	IC DECADE COUNTER 10BIT 16DIP	16DIP	THRU-HOLE	