

Module : 1601 Seq V6a 1.6.1

Total Parts : 499

BOM Line	Type	Mfg Part Number	Manufacturer	Short Description	SKU	Value	Unit	Qty	Part Notes	Reference Designator	Package
Line 1	CAP	FG28C0G1H103JN T06	TDK	MLCC - Leaded RAD 50V 0.01uF COG 5%	CAPFG28C0G1H103JNT06	0.01	uF	9			5mmLS
Line 2	CAP	FG26C0G1H104JN T06	TDK	MLCC - Leaded 0.1uF 50volts COG 5% Radial 100nF	CAPFG26C0G1H104JNT06	0.1	uF	5			5mmLS
Line 3	CAP	FA28C0G1H3R300	TDK	MLCC - Leaded 50V 3.3pF COG RAD LS:5mm	CAPFA28C0G1H3R300	3.3	pF	1		C27	5mmLS
Line 4	CAP	K101J15C0GH5TH5	Vishay	MLCC - Leaded 100pF 100volts 5% COG 5mm LS	CAPK101J15C0GH5TH5	100	pF	14			5mmLS
Line 5	CAP	K331J15C0GF5TH5	Vishay	MLCC - Leaded 330pF 50volts 5% COG 5mm LS	CAPK331J15C0GF5TH5	330	pF	1		C8	5mmLS
Line 6	CAP	FG28C0G1H471JN T6	TDK	MLCC - Leaded RAD 50V 470pF COG 5% LS:5mm	CAPFG28C0G1H471JNT6	470	pF	1		C18	5mmLS
Line 7	CAP	FG28C0G1H681JN T0	TDK	MLCC - Leaded RAD 50V 680pF COG 5% LS:5mm	CAPFG28C0G1H681J	680	pF	1		C17	5mmLS
Line 8	CAP	K102J15C0GF5TH5	Vishay	MLCC - Leaded 1000pF 50volts 5% COG 5mm LS 1nF	CAPK102J15C0GF5TH5	1000	pf	2		C41, C42	5mmLS
Line 9	CFLM	BFC238021203	Vishay	Film Cap .02uF 10% 100volts 5mm LS	CFLMBFC238021203	0.02	uF	1		C9	5mmLS
Line 10	CFLM	B32529C1393J189	EPCOS	Film Cap 0.039uF 100volts 5% 5MM LS	CFLMB32529C1393J189	0.039	uF	1		C5	5mmLS
Line 11	CFLM	B32529C104K189	EPCOS	Film Cap 0.1uF 63V 10% 5mm LS	CFLMB32529C104K189	0.1	uF	1		C7	5mmLS
Line 12	CFLM	R82EC1100DQ50J	Kemet	Film Cap 100volts 1000pF	CFLMR82EC1100DQ50J	1000	pF	1		C26	5mmLS
Line 13	CSTY	23PW250	Xicon	Film Capacitors STYRENE 50V .005uF 5000pF	CSTY23PW250	5000	pF	2		C30, C31	n/a
Line 14	DIO	1N4148TR	Vishay	1N4148 Signal Diode thru hole	DIO1N4148TR	1	each	5		D1, D2, D20, D23, D24	DO-35
Line 15	ECAP	EEA-GA1H100H	Panasonic	Electrolytic Cap - Leaded 105C Radial GA	ECAPEEAGA1H100H	10	uF	2		C1, C2	2.5mmLS
Line 16	ECAP	EEU-FC1E470H	Panasonic	Electrolytic Cap - Leaded 47uF 25V	ECAPEEUFC1E470H	47	uF	1		C40	2mmLS
Line 17	HDR	640445-2	TE Connectivity	FRCTN LK HDR STR 2P Square post tin	HDR640445-2	2	pin	2		PL3, PL4	0.156
Line 18	HDR	3-640428-2	TE Connectivity	CLOSED W/O TABS 2P L.R. red 22 AWG MTA .156	HDR3-640428-2	2	pin	2		PL3, PL4	0.156

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Line 19	HDR	640456-2	TE Connectivity	0.1 MTA HDR 2P Friction Lock	HDR640456-2	2	pin	1		PL2	0.1
Line 20	HDR	3-640440-2	TE Connectivity	0.1 MTA HDR Socket 2P Red	HDR3-640440-2	2	pin	1		PL2	0.1
Line 21	HDR	3-640440-3	TE Connectivity	0.1 MTA HDR Socket 3P Red	HDR3-640440-3	3	pin	2			0.1
Line 22	HDR	640456-3	TE Connectivity	0.1 MTA HDR 3P Friction Lock	HDR640456-3	3	pin	2			0.1
Line 23	HDW	FE-M3-.5-6PAN-BLK	Fastener Express	M3 X .5 X 6mm Pan Black Oxide Panel Screws	HDWFE-M3-.5-6PAN-BLK	1	each	12			M3
Line 24	IC	CD4042BE	Texas Instruments	CD4042BE Latches Quad D-Type	ICCD4042BE	1	each	1		Z8	DIP16
Line 25	IC	CD4011BE	Texas Instruments	CD4011 Logic Gates Quad 2-Input	ICCD4011BE	1	each	5		Z1, Z6, Z12, Z15, Z24	DIP14
Line 26	IC	CD4071	Texas Instruments	CD4071 Logic Gates Quad 2-Input	ICCD4071	1	each	2		Z16, Z17	DIP14
Line 27	IC	595-CD4016BE	Texas Instruments	CD4016 Analog Switch ICs Quad	IC595-CD4016BE	1	each	1		Z30	DIP14
Line 28	IC	MC14528BDR2G	ON Semiconductor	MC14528BDR2G Monostable Multivibrator 3-18V Dual MonoStable	ICNMC14528BDR2G	1	each	1		Z11	SOIC16
Line 29	IC	LM301AN	Texas Instruments	LM301AN Operational Amplifiers - Op Amps OP Amp	ICNLM301AN	1	each	1		Z23	DIP8
Line 30	IC	CD4024BE	Texas Instruments	CD4024BE Counter Ics 7-Bit Ripple-Carry	ICCD4024BE	1	each	1		Z25	DIP14
Line 31	IC	595-CD4013BE	Texas Instruments	CD4013BE Flip Flops Dual CMOS	IC595-CD4013BE	1	each	2		Z2, Z28	DIP14
Line 32	IC	CD4520BE	Texas Instruments	CD4520BE Counter Ics Dual Binary Up	ICCD4520BE	1	Each	1		Z7	DIP14
Line 33	IC	CD4051BE	Texas Instruments	CD4051BE 8 Ch Mux	ICCD4051BE	1	each	2		Z21, Z22	DIP16
Line 34	IC	CD4028BE	Texas Instruments	CD4028BE Encoders Decoders Multiplexers Demultiplexers BCD-to-Decimal	ICCD4028BE	1	Each	2		Z13, Z14	DIP14
Line 35	IC	CD4001BE	Texas Instruments	CD4001 Quad NOR Gate	ICCD4001BE	1	each	2		Z9, Z27	DIP14
Line 36	IC	CD4007UBE	Texas Instruments	CD4007BE Specialty Function Logic Dual Comp Pair Plus	ICCD4007UBE	1	each	4		Z3, Z31, Z32, Z33	DIP14

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Line 37	IC	CA3046M	Intersil	CA3046M SOCI14	ICNCA3046M	1	each	2		Z4, Z5	SOIC14
Line 38	IC	CD4025BE	Texas Instruments	CD4025BE Logic Gates Triple 3-Input	ICCD4025BE	1	each	1		Z10	DIP14
Line 39	IC	LM1458N/NOPB	National Semiconductor (TI)	LM1458 Dual OpAmp	ICNLM1458N/NOPB	1	each	6		Z18, Z19, Z20, Z26, Z29, Z35	DIP8
Line 40	IC	110-43-308-41-001000	Mill-Max	IC & Component Sockets 8P TIN PIN GOLD CONT	ICN11043308	8	pin	7			DIP8
Line 41	IC	110-44-314-41-001000	Mill-Max	IC & Component Sockets 14P TIN PIN TIN CONT	ICN11044314	14	pin	18			DIP14
Line 42	IC	110-44-316-41-001000	Mill-Max	IC & Component Sockets 16P TIN PIN TIN CONT	ICN11044316	16	pin	6			DIP16
Line 43	JCK	114BX	Switchcraft	114BX Phone Connectors 3C ENCLOSED 1/4"	JCK114BX	0.25	inch	1			n/a
Line 44	JCK	722A	Switchcraft	DC Power Connectors 2.0MM round w/ nut	JCK722A	2	mm	1			n/a
Line 45	JCK	WQP518MA-BM	QingPu	3.5mm Jack PJ301BM (WQP-PJ398S-BM) (WQP518MA-BM)	JCKWQP518MA-BM	3.5	mm	25	HEX NUT		n/a
Line 46	MISC	B07SMQC5TH	Blue Hat	1U DSA Blank Printed Keycaps	MISCB07SMQC5TH	1	each	3			n/a
Line 47	MISC	5123	Keystone Electronics	PCB COMPACT TEST POINT GRAY .063"	PCB COMPACT TEST POINT GRAY .063"	1	each	22			n/a
Line 48	PWR	DCWN06A-15	Meanwell	DC DC CONVERTER +/-15V 6W 200mA 9V - 18V In	PWRDCWN06A-15	1	each	1			n/a
Line 49	RES	271-1K-RC	Xicon	Metal Film Resistor 1Kohm 1%	RES271-1K-RC	1	kOhm	14			n/a
Line 50	RES	271-1.0M-RC	Xicon	Metal Film Resistor 1.0Mohm 1%	RES271-1.0M-RC	1	mOhm	19			n/a
Line 51	RES	271-1.5M-RC	Xicon	Metal Film Resistor 1.5Mohm 1%	RES271-1.5M-RC	1.5	mOhm	2		R39, R43	n/a
Line 52	RES	271-1.8K-RC	Xicon	Metal Film Resistor 1.8Kohm 1%	RES271-1.8K-RC	1.8	kOhm	1		R18	n/a
Line 53	RES	291-1.8M-RC	Xicon	Carbon Film Resistors - Through Hole 1.8Mohms 0.05	RES291-1.8M-RC	1.8	Mohm	2		R42, R116	n/a
Line 54	RES	271-2.2M-RC	Xicon	Metal Film Resistor 2.2Mohm 1%	RES271-2.2M-RC	2.2	mOhm	1		R107	n/a
Line 55	RES	271-2.7K-RC	Xicon	Metal Film Resistor 2.7Kohm 1%	RES271-2.7K-RC	2.7	kOhm	2		R178, R181	n/a

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Line 56	RES	MFR-25FTE52-3M9	Yageo	Metal Film Resistors - Through Hole 3.9M OHM 1/4W 1%	RESMFR-25FTE52-3M9	3.9	Mohm	1		R184	N/A
Line 57	RES	271-8.2K-RC	Xicon	Metal Film Resistor 8.2Kohm 1%	RES271-8.2K-RC	8.2	kOhm	2		R176, R180	n/a
Line 58	RES	271-9.76K-RC	Xicon	Metal Film Resistors - Through Hole 9.76Kohms 1% 50PPM	RES271-9.76K-RC	9.76	Kohm	2		R219, R220	N/A
Line 59	RES	291-10M-RC	Xicon	Carbon Film Resistors - Through Hole 10Mohms .25W	RES291-10M-RC	10	mOhm	1		R54	n/a
Line 60	RES	271-10K-RC	Xicon	Metal Film Resistor 10Kohm 1%	RES271-10K-RC	10	kOhm	25			n/a
Line 61	RES	271-12K-RC	Xicon	Metal Film Resistor 12Kohm 1%	RES271-12K-RC	12	kOhm	1		R179	n/a
Line 62	RES	271-15K-RC	Xicon	Metal Film Resistor 15Kohm 1%	RES271-15K-RC	15	kOhm	1		R29	n/a
Line 63	RES	271-18K-RC	Xicon	Metal Film Resistor 18Kohm 1%	RES271-18K-RC	18	kOhm	1		R131	n/a
Line 64	RES	271-22K-RC	Xicon	Metal Film Resistor 22Kohm 1%	RES271-22K-RC	22	kOhm	35			N/A
Line 65	RES	271-23.2K-RC	Xicon	Metal Film Resistor 23.2Kohm 1%	RES271-23.2K-RC	23.2	kOhm	8			n/a
Line 66	RES	271-39K-RC	Xicon	Metal Film Resistor 39Kohm 1%	RES271-39K-RC	39	kOhm	5		R2, R6, R9, R21, R120	n/a
Line 67	RES	271-39.2K-RC	Xicon	Metal Film Resistors - Through Hole 39.2Kohms 1% 50PPM	RES271-39.2K-RC	39.2	Kohm	1		R196	N/A
Line 68	RES	271-47K-RC	Xicon	Metal Film Resistor 47Kohm 1%	RES271-47K-RC	47	kOhm	12			n/a
Line 69	RES	271-97.6K-RC	Xicon	Metal Film Resistors - Through Hole 97.6Kohms 1% 50PPM	RES271-97.6K-RC	97.6	Kohm	1		R214	N/A
Line 70	RES	271-100-RC	Xicon	Metal Film Resistor 100ohm 1%	RES271-100-RC	100	Ohm	15			n/a
Line 71	RES	271-100K-RC	Xicon	Metal Film Resistor 100Kohm 1%	RES271-100K-RC	100	kOhm	17			n/a
Line 72	RES	271-150K-RC	Xicon	Metal Film Resistor 150Kohm 1%	RES271-150K-RC	150	kOhm	18			n/a
Line 73	RES	271-180K-RC	Xicon	Metal Film Resistor 180Kohm 1%	RES271-180K-RC	180	kOhm	1		R16	n/a
Line 74	RES	271-220K-RC	Xicon	Metal Film Resistor 220Kohm 1%	RES271-220K-RC	220	kOhm	3		R32, R37, R110	n/a
Line 75	RES	271-324K-RC	Xicon	Metal Film Resistors - Through Hole 324Kohms 1% 50PPM	RES271-324K-RC	324	Kohm	1		R191	N/A
Line 76	RES	271-332K-RC	Xicon	Metal Film Resistors - Through Hole 332Kohms 1% 50PPM	RES271-332K-RC	332	kOhm	2		R192, R193	n/a

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Line 77	RES	271-392K-RC	Xicon	Metal Film Resistors - Through Hole 392Kohms 1% 50PPM	RES271-392K-RC	392	Kohm	1		R194	N/A
Line 78	RES	271-470-RC	Xicon	Metal Film Resistor 470ohm 1%	RES271-470-RC	470	Ohm	1		R30	n/a
Line 79	RES	271-470K-RC	Xicon	Metal Film Resistor 470Kohm 1%	RES271-470K-RC	470	kOhm	2		R109, R190	n/a
Line 80	RES	RN65D6500F	Vishay	Metal Film Resistors - Through Hole 1/2watt 650ohms 1% 100ppm	RESRN65D6500FB14	650	Ohm	1		R242	n/a
Line 81	RES	RN65D6800F	Vishay	Metal Film Resistors - Through Hole 1/2watt 680ohms 1% 100ppm	RESRN65D6800F	680	Ohm	2		R81, R106	n/a
Line 82	RES	CFR-50JB-52-750R	Yageo	Carbon Film Resistors - Through Hole 750ohm 5% 1/2W	RESCFR-50JB-52-750R	750	Ohm	1		R130	n/a
Line 83	RES	271-820K-RC	Xicon	Metal Film Resistor 820Kohm 1%	RES271-820K-RC	820	kOhm	1		R189	N/A
Line 84	SEMI	RLB9012-120KL	Bourns	Fixed Inductors 12uH 10% 3.1A	SEMIRLB9012-120KL	1	each	1		L3	n/a
Line 85	SEMI	28L0138-80R-10	Laird	Ferrite Cable Cores 86ohms 100MHz 5A Thru-hole	SEMI28L0138-80R-10	1	each	2			n/a
Line 86	SLD	PTL60-1501-104B2	Bourns	Slide Pot 100Kohms linear Travel=60mm Center Detent	SLDPTL60-1501-104B2	100	Kohm	16			60mm
Line 87	SLD	PTL45-1500-104B1	Bourns	Slide Potentiometers 100K LINEAR 20% 45mm travel	SLDPTL45-1500-104B1	100	kOhm	2		R15, R25	45mm
Line 88	SLD	PTL45-1500-104A3	Bourns	Slide Pots 15MM LEVER 100KOHMS 45MM TRVL OR LED Log	SLDPTL45-1500-104A3	100	kOhm	1		R15	45mm
Line 89	SO	M1259-3005-AL	RAF Electronic Hardware	Standoffs & Spacers 12mm METRIC STANDOFF M3 Alum FF	SOM1259-3005-AL	12	mm	6	USE 11MM IF OMITTING SWITCH PADS		M3
Line 90	SW	G-628S-0001	CW Industries	Slide Switches Std Slide Switch DPTT	SWG-628S-0001	1	each	17		SW5 TO SW20, SW22	DPTT
Line 91	SW	CWT12AAS1	NKK Switches	Rocker Switches SPDT ON-NONE-ON	SWCWT12AAS1	1	each	1			T ON-NONE
Line 92	SW	GF-326-0001	CW Industries	Slide Switches Std Slide Switch DPDT	SWG-326-0001	1	each	2		SW2, SW21	DPDT
Line 93	SW	MX1A-11NW	Cherry	Pushbutton Switches LINEAR PCB MOUNT	SWMX1A-11NW	1	each	3		SW1, SW3, SW23	ST ON - (OF
Line 94	SW	GF-342-0037	CW Industries	SLIDE SWITCH 4PDT 3A 125V	SWG-342-0037	1	each	1		SW4	4PDT

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Line 95	TRM	3296W-1-102LF	Bourns	1K OHM TRIMMER POT CERMET 25 TURNS	TRM3296W1102LF	1	kOhm	4			3296W
Line 96	TRM	3362P-1-103LF	Bourns	Trimmer Res- Through Hole 1/4"SQ 10KOHMS	TRM3362P1103LF	10	kOhm	6	CCW FOR FULL VOLTAGE	R141, R159, R150, R156, R148, R139	3362P
Line 97	TRM	3296W-1-103LF	Bourns	10K OHM TRIMMER POT CERMET 25 TURNS	TRM3296W1103LF	10	kOhm	6			3296W
Line 98	TRM	3296W-1-104LF	Bourns	100K OHM TRIMMER CERMET POT 25 TURNS	TRM3296W1104LF	100	kOhm	4			3296W
Line 99	TRN	2N3906TF	Central Semiconductor	2N3906 PNP Transistor	TRN2N3906	1	each	13		Q4 Q6, Q7, Q8, Q10, Q29 TO Q36	TO-92-3
Line 100	TRN	2N3904TF	Central Semiconductor	2N3904 NPN Transistor	TRN2N3904	3	each	22		Q1, Q2, Q3, Q5, Q9, Q11 TO Q27	TO-92-3
Line 101	WW	WSU150-0800	Triad	Triad Wall Mount AC Adapters 100- 240V Plug-In Pwr 15.0VDC@800mA	WWWSU150-0800	15	v	1			n/a