

Rev.	ECO	Description	Checked	Approval	Date
01	85-087	Initial Release for CDR	B. Klatt	RFGoetze	4/2/04

Electronic, Electrical, and Electromechanical
Parts List
for VOILA

Dwg. No. 85-04004

Revision 01
April 2, 2004



The Electronic, Electrical, and Electromechanical (EEE) Parts List is line item number 14 on the VOILA Data requirements List and Data Requirements Document from NASA/JSC. This list includes the non-COTS EEE parts used in the VOILA Electronics Drawer (VED) which is designed and fabricated by MIT.

VIPER_EEE_Parts_List

PART/DESCRIPTION	Generic P/N or DESCRIPTION	MANUFACTURER	Qty. Rqd.	GENERIC P/N	PROCUREMENT PART NUMBER	PROCUREMENT SPEC	PKG
Voltage Reference	AD586	Analog Devices	1	AD586SQ	5962-8982401PA	SMD 5962-89824	CDIP8
16-Input Mux	ADG406	INTERSIL/SILICONIX	1	DG406AK	5962-9562301QXA	SMD 5962-95623	CDIP28
Quad Tri-State Diff Driver	DS26C31C	National Semicon	2	DS26C31MJ	5962-9163901MEA	SMD 5962-91639	CDIP16
Quad Diff Receiver	DS26C32C	National Semicon	2	DS26C32AMJ	5962-9164001MEA	SMD 5962-91640	CDIP16
Digital Potentiometer	DS1669-100	Dallas Semicon	1				
Quad Op Amp	LM124	National Semicon	2	LM124	5962-9950401QCA	SMD 5962-99504	CDIP14
LV Audio Amp	LM386	National Semicon	1				
International Rectifieer	IRF7413	INT'L RECT. INC.	5				
Thermistor, 2.252K	YSI-	YELLOW SPRINGS INST	10	44902	311P18-02S7R6	GSFC S-311-P18	2.4mm
Quad 2-Input NOR Gate	54HC02	Texas Instruments	1	SNJ54HC02W	8404101BA	SMD 84041	CDIP14
Hex Inverter	54HC04	Texas Instruments	1	SNJ54HC04J	8409801CA	SMD 84098	CDIP14
Quad 2-Input AND Gate	54HC08	Texas Instruments	1	SNJ54HC08J	8404701CA	SMD 84047	CDIP14
Hex Schimdt-Trg Inverter	54HC14	Texas Instruments	1	SNJ54HC14J	8409101CA	SMD 84091	CDIP14
Monostable Mult. Vibrator	54HC123	Texas Instruments	2	CD54HC123P3A	5962-8684701EA	SMD 5962-86847	CDIP16
4-bit Binary Counter	54HC161	Texas Instruments	1	SNJ54HC161J	8407501EA	SMD 84075	CDIP16
Phase-Locked Loop	54HC7046	Texas Instruments	1				
Converter,DC-DC, 28V-+12V	+12V, 50W	Vicor	2	MI-J21-IY	MI-J21-IY	Mfgr. Hi-Rel.	2.3X2.1
Converter,DC-DC,28V-+6.5V	+6.5V, 25W	Vicor	1	MI-J2T-IZ	MI-J2T-IZ	Mfgr. Hi-Rel.	2.3X2.1
Converter,DC-DC,28V-+5.0V	+5.0V, 25W	Vicor	1	MI-J20-IZ	MI-J20-IZ	Mfgr. Hi-Rel.	2.3X2.1
Converter,DC-DC,28V-+3.3V	+3.3V, 25W	Vicor	1	MI-J2Y-IZ	MI-J2Y-IZ	Mfgr. Hi-Rel.	2.3X2.1
Transistor, NPN	2N2222A	QPL	1	2N2222A	JTXV2N2222A	MIL-S-19500/255	TO18
Filter, EMI	28461	IR/Advanced Analog	1	28461	AME28461X/HB	Mfgr. Hi-Rel.	
Capacitor, Ceramic, Chip	0.0022uf, 100V, 10%	AVX,KEMET,PRESIDIO	5	0805	CDR01BX222BKUP	MIL-PRF-55681/01	0805
Capacitor, Ceramic, Chip	0.01uf, 100, 10%	AVX,KEMET,PRESIDIO	2	1805	CDR02BX103BKUP	MIL-PRF-55681/01	1805
Capacitor, Ceramic, Chip	0.1uf, 50V, 10%	AVX,KEMET,PRESIDIO	30	1812	CDR04BX104AKUP	MIL-PRF-55681/01	1812
Capacitor, Tantalum, Chip	1.0uf, 10V, 10%	VISHAY, SPRAGUE	6	194D	CWR06FC105KB	MIL-PRF-55365/4	CASE A
Capacitor, Tantalum, Chip	10.0uf, 15V, 10%	VISHAY, SPRAGUE	16	194D	CWR06HC103KB	MIL-PRF-55365/4	CASE F
Capacitor, Tantalum, Chip	10.0uf, 25V, 10%	VISHAY, SPRAGUE	3	194D	CWR06KC106KB	MIL-PRF-55365/4	CASE G
Resistor, Film, Chip	51, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	12	RM1505	M55342K04B51J0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	120, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	6	RM1505	M55342K04B120JP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	220, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	5	RM1505	M55342K04B220JP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	220, 400MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	5	RM1505	M55342K10B220JP	MIL-PRF-55342/04	1010
Resistor, Film, Chip	1.0k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B1K00P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	1.1k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B1K10P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	1.2k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B1K20P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	2.0k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	4	RM1505	M55342K04B2K00P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	3.3k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	6	RM1505	M55342K04B3K30P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	4.7k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	5	RM1505	M55342K04B4K70P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	6.8k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B6K80P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	13k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B13K0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	15k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	4	RM1505	M55342K04B15K0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	16k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B16K0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	22k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B22K0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	30k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B30K0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	100k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B100KP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	110k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B110KP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	300k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B300KP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	430k, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	2	RM1505	M55342K04B430KP	MIL-PRF-55342/04	1505
Resistor, Film, Chip	1M, 150MW, 5%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B1L00P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	5.9k, 150MW, 1.0%	AMITRON,MINI-SYS,SOA,VISHA	5	RM1505	M55342K04B5E90P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	10.0k, 150MW, 1.0%	AMITRON,MINI-SYS,SOA,VISHA	10	RM1505	M55342K04B10E0P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	11.8k, 150MW, 1.0%	AMITRON,MINI-SYS,SOA,VISHA	5	RM1505	M55342K04B11E8P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	18.7k, 150MW, 1.0%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B18E7P	MIL-PRF-55342/04	1505
Resistor, Film, Chip	150k, 150MW, 1.0%	AMITRON,MINI-SYS,SOA,VISHA	1	RM1505	M55342K04B150EP	MIL-PRF-55342/04	1505
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NOTE:	1) Info for this list was taken from the Engineering Unit therefore subject to change.						
	2) Surface mount or DIP ICs to be determined.						
	3) Surface mount or leaded capacitors & resistors TBD.						
	4) Quantities shown are per/system.						