

# ELECTRICAL PARTS LIST

TEL EPL  
Aerospace Corporation

Program                     LRO / CRaTER                     Subsystem                     Telescope                     Dwg. No.                     32-03001.02                      
 Engineer                     W. Crain                     Phone                     310-336-8530                     S/N                     002 and 003                      
 Remarks                     Rev07- AS BUILT chg #008 to 715K and add bonded terminals ref designators, add #13A and #13B lab select values, chg #19 value to 13p, chg #25 part number for 25V spec)                      
 Board Name                     Telescope Board                    

Item No.	QTY	Part Description	Specification / Part Number	Screening	Value	Manufacturer	PCB Reference Designations
001	1	AD590 Temperature Transducer; SM	AD590LF/883B	MIL-STD-883B	n/a	Analog Devices	U7
002	6	A250 Preamplifier Hybrid (no FET), DIP, Option 1 scrm	A250	Amptek	n/a	Linear Tech	U1,U2,U3,U4,U5,U6
003	3	JFET transistor, N channel (140um detector)	IF9030-JTXV	MIL-PRF-19500 JANTXV Inhouse	n/a	Interfet	J1,J4,J6
004	3	JFET transistor, N channel (1000um detector)	IF9030-JTXV	MIL-PRF-19500 JANTXV Inhouse	n/a	Interfet	J7,J8,J9
005	3	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B3E40S	MIL-PRF-55342	3.40K	State of the Art	R1,R23,R35
006	3	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B100DS	MIL-PRF-55342	10	State of the Art	R16,R28,R58
007	7	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B49D9S	MIL-PRF-55342	49.9	State of the Art	R2,R8,R15,R27,R45,R48,R59
008	3	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B499ES	MIL-PRF-55342	715K	State of the Art	R12,R22,R34,R12BT,R22BT,R34BT
009	3	Resistor, 1%, 40V, 225mW, Class S, RC2208	M55342K05B4F99S	MIL-PRF-55342	4.99M	State of the Art	R44,R49,R60
010	3	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B499DS	MIL-PRF-55342	499	State of the Art	R46,R71,R73
011	1	Resistor, 1%, 50V, 100mW, Class S, RC0805	M55342K06B10E0S	MIL-PRF-55342	10K	State of the Art	R70
012	6	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B3F57S	MIL-PRF-55342	3.57M	State of the Art	R3,R5,R13,R24,R25,R36
013A	3	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B2F00S	MIL-PRF-55342	2.0M	State of the Art	R38,R57,R68
013B	6	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09BXXXXS	MIL-PRF-55342	SHORT	State of the Art	R9,R17,R29,R39,R50,R61
014	12	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B200ES	MIL-PRF-55342	200K	State of the Art	R6,R10,R19,R20,R31,R32,R41,R42,R52,R53,R63,R64

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Item No.	QTY	Part Description	Specification / Part Number	Screening	Value	Manufacturer	PCB Reference Designations
015	6	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B499ES	MIL-PRF-55342	499K	State of the Art	R7,R18,R30,R40,R51,R62,R4,R14,R26
016	6	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B100ES	MIL-PRF-55342	100K	State of the Art	R11,R21,R33,R43,R54,R65
017	3	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B10F0S	MIL-PRF-55342	10.0M	State of the Art	R37,R56,R67
018	3	Resistor, 1%, 200V, 1000mW, Class S, RC2512	M55342K09B3F01S	MIL-PRF-55342	3.01M	State of the Art	R47,R55,R66
019	9	Capacitor, 1%, 100V, 0.01% FR, CC0805	CDR31BP130BFUS	MIL-C-55681	13p	Kemet	C1,C2,C7,C13,C14,C15,C21,C22,C23
020A	6	Capacitor, 10%, 500V	2006002-2	Per Brian Klatt	27 nF	CalRamic	C3, C9, C17, C26, C36, C43
020B	18	Capacitor, 10%, 100V	CDR03BX223BKUR	MIL-C-55681	22 nF	Kemet	C4, C5, C6, C11, C12, C16, C19, C20, C24, C27, C28, C31, C33, C34, C35, C40, C41, C42
021	3	Capacitor, 1%, 100V, 0.01% FR, CC0805	CDR31BP3R9BFUR	MIL-C-55681	3.9p	Kemet	C8,C10,C18
022	9	Capacitor, 1%, 100V, 0.01% FR, CC0805	CDR31BP3R9BFUR	MIL-C-55681	3.9p	Kemet	C25,C29,C30,C32,C37,C38,C39,C44,C45
023	2	Capacitor, 10%, 100V, 0.01% FR, CC1825	CDR05BX104BKUR	MIL-C-55681	100n	Kemet	C46,C47
024	3	Capacitor, 5%, 100V, 0.01% FR, CC0805	CDR31BP2R0BJUR	MIL-C-55681	2p	Kemet	C50,C51,C52
025	8	Tantalum Capacitor, 10%, 25V, SM	CWR11KH106KB	MIL-PRF-55365/4	10uF	Kemet	C48,C49,C53,C54,C55,C56,C57,C58
026	6	Inductor, 10%, 0.01% FR, AXIAL	M39010/03B-471KR	MIL-PRF-39010	WIRE SHORT	API	L1,L2,L3,L4,L5,L6
027	1	Connector, combo, Dsub, Cable	SCBM24W7F3000G		n/a	Positronic	Cable
028	7	Connector shielded contact, Male, for Dsub	MC4102M		n/a	Positronic	Insert on cable connector

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Item No.	QTY	Part Description	Specification / Part Number	Screening	Value	Manufacturer	PCB Reference Designations
029	6	Connector, 90 deg 2-row strip, .05" centers	MA-2E1-004-433-A000	MIL-C-83513	n/a	Airborn	DET1,DET2,DET3,DET4,DET5,DET6
030	17	Wire,Crosslinked ETFE (white), 26awg	M22759/22-26-9	MIL-W-22759/22	26AWG	QML	Cable wire
031	7	Cable,Electrical,1-Cond,Shielded,N/J, 26awg	M27500-26SC1S00	MIL-C-27500	26AWG	QML	Shielded cable wire
032	6	SMB coax test connector	2009-1511-000		n/a	AEP	P1,P2,P3,P4,P5,P6