



**Aerospace  
Systems Division**

Lunar Mass Spectrometer  
EEE Parts List

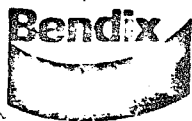
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Presented herein is the EEE parts list for the Lunar Mass Spectrometer Experiment (LMS). BxA parts are listed in Section A and University of Texas-Dallas (UTD) parts are listed in Section B. The "A" revision is a result of the redesign by UTD to include a multi-mode emission control ion source voltage. The Flight model has the multi-mode emission control assembly; the Qual model has the fixed mode assembly. The fixed and multi-mode assembly are electrically interchangeable.

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LMS Reliability P. E.

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ALSEP Reliability



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SECTION A

Contained herein is the EEE parts list for the BxA built portion of the LMS.  
The usage key is given below:

Key	Circuit
1	Housekeeping
2	Ion pump HV/PS *
3	Counting and Data Compression
4	Decoder and Signal Conditioner
5	Mult HV/PS *
6	Hi-Voltage Multiplier *
7	Low-Voltage PS
8	Control and Monitor
9	Base Plate

\* Devices on these circuits are used by Bendix E. O. D.

The vendor codes are given below:

Aerovox	A	Sem Tech.	L
Sprague	B	Finwall	M
El Menco	C	YSI	N
G. I./TRW	D	Schott	O
Mepco	E	Teledyne	P
Allen Bradley	F	Electro	Q
Welwyn	G	Solitron	R
Dale	H	Dickson	S
Texas Inst.	I	Fairchild/Raytheon	T
National	J	Honeywell	U
G. E.	K	Sage	V



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TABLE I CAPACITORS — SECTION A (cont)

Type: Ceramic (CKR-)

Value	Part #	Mfgr.	SCD/MIL #	Total	Use
47 pfd	05CX470KS	A	2346230-9	3	2
100 pfd	11CX101KS		2346233-13	7	1, 7
100 pfd	05CX101KS		2346230-13	2	7
470 pfd	05CX471KS		2346230-21	1	2
1000 pfd	05CX102KS		2346230-25	1	7
0.001 μfd	11CX102KS		2346233-25	13	1, 4
0.0022 μfd	11CX222KS		2346233-29	3	3
0.0033 μfd	11CX332KS		2346233-31	3	3
0.0047 μfd	11CX472KS		2346233-33	1	1
0.0047 μfd	06CX472KS		2346231-8	3	7
0.01 μfd	06CX103KS		2346231-12	3	7
0.01 μfd	11CX103KS		2346233-37	12	2, 5
0.033 μfd	11CX333KS		2346233-29	3	3
0.10 μfd	11CX104KS	A	2346233-13	13	1, 2, 3, 4, 5

Type: MICA (CMR-)

2200 pfd	02F222F3R	C	MILC39001/2	2	2
3900 pfd	02F392F3R	C	MILC39001/2	2	7

Type: Electrolytic (CSR-)

1 μfd	13G105KS	B	2346240-75	6	7, 8
4.7 μfd	13G475KS		2346240-86	7	2, 7
6.8 μfd	13F685KS		2346240-44	4	7
10 μfd	13E106KS		2346240-32	1	1
10 μfd	13G106KS		2346240-90	1	4
10 μfd	13H106KS		2346240-20	1	4
15 μfd	13G156KS		2346240-92	1	7
18 μfd	13G186KS		2346240-93	2	2, 5
22 μfd	13D226KS		2346240-22	3	2, 5, 7
22 μfd	13G226KS		2346240-94	1	7
220 μfd	13C227KS	B	2346240-18	1	8

Type: Ceramic Special

5000 pfd	5410-0008	D	2340399-3	13	5, 6
0 pfd	None	D	2340399-2	15	5, 2



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TABLE II RESISTORS - SECTION A (cont)

Type: RNR55EXXXXXS \*

Value ( $\Omega$ )	RNR55E #	Mfgr.	MILR	Total	Use
200	2000FS	E	55182/1F	2	1
332	3320FS			1	7
2.15K	2151FS			2	7
2.18K	2181DS			1	7
2.21K	2211FS			1	7
2.23K	2231DS			1	7
2.26K	2261FS			1	7
2.29K	2291DS			1	7
2.32K	2321FS			4	7
2.34K	2341DS			2	7
2.37K	2371FS			2	7
2.40K	2401DS			4	7
2.43K	2431FS			2	7
2.46K	2461DS			1	7
2.52K	2521DS			1	7
2.55K	2551FS			1	7
2.58K	2581FS			2	7
3.01K	3011FS			3	9, 7
3.32K	3321DS			2	7
4.75K	4751DS			2	7
4.99K	4991FS			6	7
5.90K	5901FS			1	7
5.97K	5971DS			1	7
6.04	6041FS			1	7
6.12K	6121DS			1	7
6.19K	6191FS			1	7
6.34K	6341FS	E	55182/1F	1	7

\*No SCD's were issued for resistors. Resistors bought to existing specifications.



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TABLE II RESISTORS (CONT.) - SECTION A (cont)

Type: RNR55EXXXXXS Cont.

Value ( $\Omega$ )	RNR55E #	Mfgr.	MILR	Total	Use
7.32K	7321FS	E	55182/F	1	7
7.41K	7411DS			1	7
7.50K	7501FS			1	7
7.59K	7591DS			1	7
7.68K	7681FS			1	7
8.06K	8061FS			1	1
8.45K	8451FS			1	8
9.09K	9091FS			1	1
10.0K	1002FS			4	1
12.1K	1212FS			1	1
12.4K	1242FS			1	7
12.9K	1292DS			1	7
13.3K	1332FS			1	7
13.8K	1382FS			1	7
14.3K	1432FS			3	7
15K	1502FS			1	1
20K	2002FS			1	1
24.3K	2432FS			1	8
26.7K	2672FS			1	1
29.4K	2942FS			1	8
35.7K	3572FS			11	7, 8
40.2K	4022FS			1	1
49.9K	4992FS			7	1, 8
68.1K	6812DS			3	7
75.0K	7502FS			1	1
80.6K	8062FS			2	7
100K	1003FS			17	1
499K	4993FS	E	55182/F	1	1



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TABLE II RESISTORS (CONT.) - SECTION A (cont)

Type: RCR07GXXXJS

Value ( $\Omega$ )	RCR07G-	Mfgr.	MILR	Total	Use
10	100	F	39008/1B	1	7
27	270			1	7
47	470			2	7
56	560			1	7
75	750			1	7
100	101			1	7
200	201			2	7
330	331			3	1, 4
1K	102			3	1, 7
2.7K	272			1	7
20K	203			1	7
24K	243			2	7
33K	333			1	7
68K	683			1	7
82K	823			2	1, 4
100K	104	F	39008/1B	1	6

Type: RCR05GXXXJS:

8.2	8R2	F	39008/4C	1	5
27	270			1	2
470	471			1	5
560	561			1	2
910	911			2	2
1K	102			1	2
4.7K	472			4	2
8.2K	822			1	2
10K	103			2	2
15K	153	F	39008/4C	1	2



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TABLE II RESISTORS (CONT.) - SECTION A (cont)

Type: RCR05GXXXJS (Cont.)

Value ( $\Omega$ )	RCR05G	Mfgr.	MILR	Total	Use
22K	223	F	39008/4C	1	2
27K	273			5	5
39K	393			2	5
47K	473			1	2
51K	513			1	2
62K	623			1	2
100K	104			9	2
150K	154			1	2
220K	224			1	2
270K	274			1	5
470K	474			3	5
2.2M	225			3	2, 5
3.3M	335			1	5
5.6M	565			2	5
10M	106			1	2
12M	126	F	39008/4C	3	2



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RESISTORS TABLE II (CONT.) - SECTION A (cont)

Type: Metal Oxide HI-V/HI-Ω

Value	( Mfg P N )	Mfgr.	SCD#	Total	Use
2 GΩ	( None )	G	2340397-2	1	6
10 GΩ	( ~ MH51 )	G	2340397-4	1	2
1 GΩ		G	2340397-1	1	5

Type: RWR81SXXXFS

Value (Ω)	RWR81S-	Mfgr.	MIL-R	Total	Use
0.1	R100	H	39007/9	1	7

Type: RNR65CXXXFS

Value (Ω)	RNR65C-	Mfgr.	MIL-R	Total	Use
1.0 Meg	1005	E	55182/5	5	7





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TABLE III DIODE - SECTION A (cont)

Type	SCD/MIL #	Mfgr.	Total	Use
SMIN914	50M6019	I/K	9	1, 7
IN4099	2340392	S	1	2
IN483 B	85M01682	T	16	2, 5
SS4948	85M03895	L	42	6, 5, 2
SIN5417	85M03896	L	4	7
SIN4942	85M03895	L	8	7
SIN645	85M01645	D	6	6
IN4103	2340932	S	1	5

TABLE IV TRANSISTOR

FET sw	2346274-2	P	8	1
Dual PNP 2N3811A	2346283-1	I	1	2
NPN 2N2484	2340395-1	P	5	2, 5
NPN 2N4863	85M03773	R	10	2, 5, 7
PNP 2N2907A	50M60198	I	2	2
PNP 2N2905A	50M60198	I	2	5, 7
NPN 2N2222A	85M02699	I	1	7
NPN 2N2060	85M02708	I/K	4	7
NPN 2N2920	85M02710	I	7	7, 8



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TABLE V MICROCIRCUITS - SECTION A (cont)

Type	SCD#	Mfgr.	Use	Total
SN54L10	2346201-3	I	1, 3	4
SN54L78	2346201-16	I	1, 4	25
SN54121	2346201-18	I	1, 8	2
SN5400	2346207-1	I	1, 4	4
SN54L00	2346201-1	I	1, 3, 4	13
SN54L04	2346201-6	I	1, 3, 4	18
SN54L20	2346201-4	I	3, 4	15
SN54L72	2346201-10	I	3	3
SN54L73	2346201-11	I	4	7
SN54L93	2346201-14	I	4	19
SN54L95	2346201-15	I	3	24
SN5404	2346207-15	I	4	2
SN54L30	2346201-5	I	4	3
LM108AH/883	2346271-1	J	2, 7, 1	10
SM105G	85M03889	J	7	2
SM104G	85M03899	J	7	2

TABLE VI RELAYS

Type	SCD#	Mfgr.	Use	Total
DPDT 422-12	2346264-1	P	8, 5, 2	5
SPDT 431-5034	2346239-1	P	1	8
Hi-V	2346261-1	Q	2	8



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TABLE VII MISCELLANEOUS PARTS - SECTION A (cont)

Type	SCD No.	Mfgr. No.	Total	Mfgr.	Use
Compensator, Log	2340398-1	None	1	V	2
Thermistor	2335661-2	GB42MM62	1	M	7
Thermistor	2346238-1	44032	1	N	7
Transformer	3544871	None	1	O	5
Transformer	3544870	None	1	O	2
Transformer	2346202-1	None	1	O	7
Choke	2346204-1	None	2	O	7
Choke	2346206-1	None	1	O	7
Choke	2346209-1	None	1	O	7
Choke	2346211-1	None	1	O	7
Resistor Kit	2347641	RCR05G	1	F	2
(This kit contains 9 resistors of the RCR05G type.)					
Microswitch	2346242-1		1	U	9



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SECTION B

Contained herein is the EEE parts used in the UTD built circuits.  
The usage key is given below:

<u>Key</u>	<u>Used In</u>
1	Analyzer Assembly
2	Emission Control Circuit
3	Pre-Amp/Discriminator/ Oscillator Circuit
4	SWP H. V. Circuit

The vendor code is given below:

A	Kemet	O	Teledyne
B	Aerovox	P	Sprague
C	Corning	Q	National
D	Centralab.	R	Amelco
E	Allen Bradley	S	Monsanto
F	Mepco	T	Leightner
G	Pyrofilm	U	Babcock
H	Components	V	Monitor
I	T.I	W	Delevan
J	CDC	X	Varian
K	Unitrode	Y	EMR
L	Semicon	Z	Caddock
M	Solitron	AA	Rosemont
N	RCA	AB	Dale
		AC	Dickson



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TABLE I CAPACITORS - SECTION B (cont)

Type: CSR13-

Value	P/N	SPEC SCD #	Mfgr.	Total	Use
1 ufd	G105KR	MIL-C-39003/01-2836	A	9	2, 4
.56 ufd	J564KR	MIL-C-39003/01-2941	A	1	2
10. ufd	H106KR	MIL-C-39003/01-2898	A	4	2, 4

Type: CKR13BX-

.1 ufd	104KR	MIL-C-39014/06-0153	B	5	2
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Type: CKR06BX-

.01 ufd	103KR	MIL-C-39014/02-0298	B	9	3, 4, 2
.1 ufd	104KR	MIL-C-39014/02-0298	B	48	3, 4
22 ufd	224KR	MIL-C-39014/02-0298	B	1	3

Type: CKR05BX-

22	220KR	MIL-C-39014/01-0287	B	-	-
33	330KR	MIL-C-39014/01-0290	B	-	-
39	390KR	MIL-C-39014/01-0292	B	-	-
47	470KR	MIL-C-39014/01-0293	B	5	3
68	680KR	MIL-C-39014/01-0296	B	3	3
82	820KR	MIL-C-39014/01-0298	B	-	-
100	101KR	MIL-C-39014/01-0299	B	1	4
150	151KR	MIL-C-39014/01-0302	B	3	3
270	271KR	MIL-C-39014/01-0307	B	1	4
1000	102KR	MIL-C-39014/01-0317	B	2	2



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TABLE I CAPACITORS (CONTINUED) - SECTION B (cont)

Type: ECY (CMR)

Value	ECY	SPEC SCD #	Mfgr.	Total	Use
1 pfd	101ROC5	MSFC-SPEC/400/1	C	3	3
3 pfd	103RO-5	MSFC-SPEC-400/1	C	3	3

Type: CKR12BX-

22 pfd	220KS	MIL-C-39014/05-0303	B	2	2
47 pfd	470KS	MIL-C-39014/05-0307	B	2	2
100 pfd	101KS	MIL-C-39014/05-0314	B	2	4
330 pfd	331KS	MIL-C-39014/05-0321	B	1	4
560 pfd	561KS	MIL-C-39014/05-0326	B	3	4
2200 pfd	222KS	MIL-C-39014/05-0338	B	1	4
.01 pfd	103KS	MIL-C-39014/05-0346	B	1	4

Type: Hi Volt. (3000 VDC)

10 pfd	DD30-100	151-360-100	D	1	4
47 pfd	DD30-470	151-360-470	D	1	4
100 pfd	DD30-101	151-360-101	D	5	4
2000 pfd	DD30-202	151-360-202	D	1	2



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TABLE II RESISTORS - SECTION B (cont)

Type: RCE07G

Value ( $\Omega$ )	RCR07-	Mfgr	MIL-R	Total	Use
15	100JS	E	39008/1B	2	4
18	180JS			5	2, 3
22	220JS			1	2
47	470JS			9	3
68	680JS			1	4
100	101JS			10	3
220	221JS			1	2
270	271JS			3	3
330	331JS			1	3
360	361JS			1	4
470	471JS			9	2, 3, 4
510	511JS			3	3
560	561JS			2	2
680	681JS			8	2, 3
1K	102JS			13	2, 3, 4
1.2K	122JS			3	3
1.8K	182JS			3	3
2.2K	222JS			6	3, 4
2.7K	272JS			6	3, 4
2.7K	272JS			6	3
3.3K	332JS			10	2, 3, 4
3.9K	392JS			6	3
4.7K	472JS			5	2, 3
6.8K	682JS			5	3, 4
8.2K	822JS			3	3
10K	103JS			27	2, 3, 4
12K	123JS			3	3
15K	153JS			1	4
18K	183JS			6	2
22K	223JS			1	4
47K	473JS	E	39008/1B	3	2, 3



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TABLE II RESISTORS (CONT.) - SECTION B (cont)

Type: RCR07G (Cont.)

Value ( $\Omega$ )	RCR07G-	Mfgr.	MIL-R	Total	Use
470K	474JS	E	39008/1B	1	2
100K	104JS	E	39008/1B	1	2
150K	154JS			1	2
1M	105JS			1	4
1.3M	135JS			1	4
22M	226JS			2	4
To be determined	XXXJS	E	39008/1B	8	3, 4

Type: RNR55G

Value ( $\Omega$ )	RNR55G-	Mfgr.	MIL-R	Total	Use
51.1	51R1FS	F	55182/1		
1000	1001FS			3	3
1.82K	1821FS			3	2, 4
4.53K	4531FS			3	3
6.49K	6491FS			3	3
10.K	1002FS				2
22.1K	2212FS				
22.6K	2262FS				
23.2K	2322FS				
23.7K	2372FS				
24.3K	2432FS				
24.9K	2492FS				
25.5K	2552FS				
28.1K	2612FS				
26.7K	2672FS				
27.4K	2742FS				
28.7K	2802FS				
2877K	2872FS				
29.4K	2942FS				
30.1K	3012FS				
30.9K	3092FS				

A total of 5  
selected  
resistors to  
be used.





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TABLE II RESISTORS (CONT.) - SECTION B (cont)

Type: RNR55G (Cont.)

Value ( $\Omega$ )	RNR55G-	Mfgr.	MIL R	Total	Use
31.6K	3162FS	F	55182/1	*	
32.4K	3242FS			*	
33.2K	3322FS			*	
34.0K	3402FS			*	
34.8K	3482FS			*	
35.7K	3572FS			3	3
36.5K	3652FS			*	
34.7K	3472FS			*	
38.3K	3832FS			*	
39.2K	3922FS			*	
40.2K	4022FS			*	
51.1K	5112FS			*	
61.9K	6192FS			1	4
100K	1003FS	F	55182/1	3	4

Type: PMR60, T2

Value ( $\Omega$ )	SCD#	Mfgr.	Total	Use
.5	151-341-01-0.5M	G	1	4, 2
1.0M		1.0M	1	2
1.2M		1.2M	1	
1.5M		1.5M		A total of 9 resistors to be selected from this group.
2.0M		2.0M		
2.5M		2.5M		
3.0M		3.0M		
3.5M		3.5M		
4.0M		4.0M		
4.5M		4.5M		
5.0M		5.0M		
5.5M		5.5M		
6.0M		6.0M		
6.5M		6.5M		
7.0M		7.0M		
50.0M	151-351-02-50M	G	3	4, 2



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TABLE III DIODES - SECTION B (cont)

Type	MSFC/SCD #	Mfgr.	Total	Use
IN4942	151-364	K	32	2
IN914	50M60197	I	29	2, 3, 4
SIN963B	50M01309	H	12	2
TXIN4099	151-358	J	2	2
SIN827A	50M01678	H	3	3
SO306	151-359	L	4	4
SIN963B	85M01678	H	1	4
TXIN4100	151-498-00	AC	2	2
TXIN41XX	151-498-XX	AC	2	2
TXIN4101	151-498-01	AC	1	2
TXIN4104	151-498-04	AC	1	2
TXIN4107	151-498-07	AC	1	2

TABLE IV TRANSISTORS

Type	MSFC/SCD #	Mfgr.	Total	Use
S2N1486	85M01303	M	2	2
S2N2102	85M01108	N	4	2, 4
SM2N2907H	50M60198	I	12	2
S2N2222H	85M02699	I	20	2, 3, 4
TX2N3823	151-355	O	3	3

TABLE V MICROCIRCUITS

Type	UTD SCD #	Mfgr.	Total	Use
SN54L121	151-367	I	5	3, 4
UD4037	151-341	P	3	4
UD4036	151-342	P	1	4
UD4001	151-343	P	2	4
NH-0001	151-344	Q	2	2
2404BG	151-346	R	1	4
MCT-1	151-347	S	5	2, 4
SN52710S-11	151-349	I	3	3



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TABLE V MICROCIRCUITS (CONT.) - SECTION B (cont)

Type	MSFC/SCD#	Mfgr.	Total	Use
UT1000	151-353	P	3	4
LM108F	151-354	Q	1	4
SN54L00	85M03766-100	I	4	3,4
SN54L04	85M03766-NA*	I	4	4,2
SN54L10	85M03766-110	I	2	4,2
SN54L20	85M03766-120	I	2	4
SN54L30	85M03766-130	I	3	4
SN54L51	85M03766-151	I	2	4
SN54L71	85M03766-171	I	5	5
SN54L73	85M03766-173	I	9	4

\*Dash number not assigned at this time.



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TABLE VI TRANSFORMERS - SECTION B (cont)

UTD SCD #	Mfgr.	Total	Use
151-319-01	T	1	2
151-320-01	D	2	2
151-320-02	T	2	2
151-321-01	T	2	2
151-322-01	T	1	2
151-323-01	T	1	4

TABLE VII RELAYS

Type	SCD#	Mfgr.	Total	Use
BR17	2338517-1 (ExA)	U	6	2

TABLE VIII MISC PARTS

Type	Mfgr. P/N	SCD #	Mfgr.	Total	Use
Crystal	CR-19/U	151-361-U1	V	1	3
Shielded Induct.	2307-68A	151-348	W	1	4
Magnet & Ion Pump	9130042 9130041	151-368	W	1	1
Electron Mult.	EMR5100N-	151-317-02	Y	3	1
Resistors	MG650	151-363	Z	48	1
Temp Sensors	14662	151-350-01	AA	1	1
Bakeout Htr.	C2-53	151-316	AB	1	1