

Report NO. : 11E070005

XTX-U15B

Reliability Prediction Report

(MTBF)

Summary	Failure Rate: 10.671959 ppm MTBF: 93,704 Hours
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Issue date	Approval	Test Engineer
2011/01/21	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: TF-XTX-U15B-A10

II . Prediction Date: Jan. 21, 2011

III . Prediction Site: AAEON Q.E. Dept.

IV . Predicted by: Jessica Chou

V . Equipment: Relex Ver.7.3 Visual Reliability Software

VI . Simulation Environment:

- Temperature: 24.6 degrees C
- Standard: Telcordia (Bellcore) Standard

VII . Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

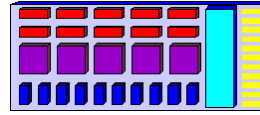
VIII. Prediction Result:

TF-XTX-U15B-A10:

- Failure Rate: 10.671959 ppm
- MTBF: 93,704 Hours

AAEON Reliability Prediction Report

Part Number 9697U15B0C-D
Reference Des
Date 01. 21, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description Top-level assembly
File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-XTX-U15B-A10	9697U15B0C-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	10.67	93703.51

AAEON Reliability Prediction Report

Part Number 9697U15B0C-D
Reference Des
Date 01. 21, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description Top-level assembly
File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700009	Resistor	R102,R103,R115, R144,R202,R203, R225,R254,R263, R313,R314,R328, R336,R358,R364, R366,R367,R369, R370,R381,R382, R407,R43,R433,R440, R441,R443,R447, R449,R456,R457, R459,R481,R482, R486,R487,R49,R491, R492,R498,R499,	Telcordia Issue 1	Level I		104.00	0.002250	2.1926	444448754.52
1124533280	Capacitor	C336	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1189647180	Capacitor	C344	Telcordia Issue 1	Level I	20.20	1.00	0.006526	.0611	153243047.50
1189633160	Capacitor	C345,TC1,TC7	Telcordia Issue 1	Level I		3.00	0.004500	.1265	222224377.26
1189615150	Capacitor	C346,TC16,TC19	Telcordia Issue 1	Level I		3.00	0.004500	.1265	222224377.26
11C1533890	Capacitor	C347	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1124547190	Capacitor	C355,C362	Telcordia Issue 1	Level I		2.00	0.004500	.0843	222224377.26
1129715090	Capacitor	C361	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1129710390	Capacitor	C371,C424,C428, C431,C433,C436	Telcordia Issue 1	Level I		6.00	0.004500	.2530	222224377.26
1124522190	Capacitor	C402	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1122539980	Capacitor	C407	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1305099140	Semiconductor	D2,D3	Telcordia Issue 1	Level I		2.00	0.078692	1.4747	12707742.66
1301005440	Semiconductor	D13,D4,D6	Telcordia Issue 1	Level I		3.00	0.023608	.6636	42359142.19
1301005442	Semiconductor	D10,D11,D16	Telcordia Issue 1	Level I		3.00	0.023608	.6636	42359142.19
1301053040	Semiconductor	D14,D15,D17,D19	Telcordia Issue 1	Level I		4.00	0.023608	.8848	42359142.19
1301003240	Semiconductor	D18	Telcordia Issue 1	Level I		1.00	0.023608	.2212	42359142.19
1301005441	Semiconductor	D20	Telcordia Issue 1	Level I		1.00	0.027000	.2530	37037396.21
1212306035	Inductor	FB1,FB10,FB14,FB16, FB17,FB2,FB23,FB24, FB3,FB6,FB8,FB9	Telcordia Issue 1	Level I		12.00	0.002250	.2530	444448754.52
1212306031	Inductor	FB12,FB4,FB5	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
1212306030	Inductor	FB11	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1212306032	Inductor	FB18,FB19,FB20, FB21,FB22	Telcordia Issue 1	Level I		5.00	0.002250	.1054	444448754.52
1653003202	Connection	JP1	Telcordia Issue 1	Level I		1.00	0.003343	.0313	299122236.19
1304001340	Semiconductor	LED1	Telcordia Issue 1	Level I		1.00	0.004701	.0441	212713271.32
1304101340	Semiconductor	LED2	Telcordia Issue 1	Level I		1.00	0.004701	.0441	212713271.32

AAEON Reliability Prediction Report

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Date 01. 21, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
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Description Top-level assembly
File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
121110336W	Inductor	L3	Telcordia Issue 1	Level I		1.00	0.085499	.8012	11696019.86
121110336L	Inductor	L4	Telcordia Issue 1	Level I		1.00	0.085499	.8012	11696019.86
1211000180	Inductor	L100,L14	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
1211101066	Inductor	L5	Telcordia Issue 1	Level I		1.00	0.085499	.8012	11696019.86
1315230511	Semiconductor	Q1	Telcordia Issue 1	Level I		1.00	0.078692	.7374	12707742.66
1315442010	Integrated Circuit	Q2	Telcordia Issue 1	Level I		1.00	0.057652	.5402	17345532.46
1315700211	Semiconductor	Q17,Q21,Q22,Q23, Q25,Q26,Q27,Q3,Q35, Q36,Q37,Q38,Q4,Q40, Q41	Telcordia Issue 1	Level I		15.00	0.078692	11.0606	12707742.66
1315033510	Semiconductor	Q10	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1311390610	Semiconductor	Q7	Telcordia Issue 1	Level I		1.00	0.023608	.2212	42359142.19
1310390411	Semiconductor	Q11,Q12,Q13,Q15, Q16,Q20,Q8,Q9	Telcordia Issue 1	Level I		8.00	0.023608	1.7697	42359142.19
1315230111	Semiconductor	Q14,Q30,Q32,Q34, Q42	Telcordia Issue 1	Level I		5.00	0.000000	.0000	.00
1311119710	Semiconductor	Q18	Telcordia Issue 1	Level I		1.00	0.023608	.2212	42359142.19
1315662810	Semiconductor	Q28,Q29	Telcordia Issue 1	Level I		2.00	0.078692	1.4747	12707742.66
1540710280	Resistor	RP1	Telcordia Issue 1	Level I		1.00	0.006133	.0575	163061825.44
1540700081	Resistor	RP10,RP2,RP3,RP4	Telcordia Issue 1	Level I		4.00	0.000000	.0000	.00
1540782282	Resistor	RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		4.00	0.012265	.4597	81530912.72
1540747285	Resistor	RP9	Telcordia Issue 1	Level I		1.00	0.006133	.0575	163061825.44
105A705609	Resistor	R1,R15,R16,R18,R20, R23,R24,R26,R28, R29,R3,R4	Telcordia Issue 1	Level I		12.00	0.002250	.2530	444448754.52
105A700139	Resistor	R104,R119,R192,R2, R268,R277,R279, R280,R281,R288, R306,R349,R356,R37, R424,R444,R445, R509,R510,R511, R512,R521,R665, R672,R673	Telcordia Issue 1	Level I		25.00	0.002250	.5271	444448754.52
105A501413	Resistor	R596	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A500139	Resistor	R150,R27,R339,R39, R44,R46,R5,R517, R518,R519,R520, R606	Telcordia Issue 1	Level I		12.00	0.002250	.2530	444448754.52
105A560469	Resistor	R117,R118,R47,R48, R6	Telcordia Issue 1	Level I		5.00	0.002250	.1054	444448754.52
105A500133	Resistor	R114,R21,R22,R502, R597,R7	Telcordia Issue 1	Level I		6.00	0.002250	.1265	444448754.52
105A702209	Resistor	R238,R239,R252,R58, R60,R8	Telcordia Issue 1	Level I		6.00	0.002250	.1265	444448754.52
105A527469	Resistor	R13,R9,R93	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
105A554969	Resistor	R12,R14	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52

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Description Top-level assembly
File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A703309	Resistor	R134,R135,R136, R137,R138,R139, R140,R141,R152, R154,R19,R233,R234, R235,R236,R255, R256,R257,R258, R259,R260,R271, R388,R389,R390, R391,R392,R422, R427,R626,R628, R657,R658,R678	Telcordia Issue 1	Level I		34.00	0.002250	.7168	444448754.52
105A701039	Resistor	R105,R107,R108, R109,R110,R111, R121,R148,R158, R159,R162,R163, R196,R200,R201, R215,R217,R227, R231,R232,R253, R272,R273,R274, R275,R276,R278, R291,R292,R293, R295,R300,R303, R309,R311,R32,R320, R346,R347,R403,	Telcordia Issue 1	Level I		77.00	0.002250	1.6234	444448754.52
105A510009	Resistor	R157,R34,R35,R42, R452,R458	Telcordia Issue 1	Level I		6.00	0.002250	.1265	444448754.52
105A522103	Resistor	R40	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050524904	Resistor	R45,R50,R52	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
105A704729	Resistor	R191,R204,R205, R206,R207,R208, R210,R212,R213, R214,R216,R218, R219,R220,R222, R223,R224,R264, R285,R375,R376, R377,R378,R379, R380,R383,R401, R402,R408,R417, R420,R421,R426, R490,R501,R527,R55, R559,R57,R578,R	Telcordia Issue 1	Level I		50.00	0.002250	1.0542	444448754.52
105A710053	Resistor	R539,R64	Telcordia Issue 1	Level I		2.00	0.013500	.2530	74074792.42
105A701033	Resistor	R69,R89,R91	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52

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105A702033	Resistor	R73	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A524963	Resistor	R76	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050540224	Resistor	R84,R85,R88	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
105A702229	Resistor	R414,R418,R472, R532,R535,R536, R540,R541,R599, R601,R86	Telcordia Issue 1	Level I		11.00	0.002250	.2319	444448754.52
105A768009	Resistor	R92	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A704723	Resistor	R100,R101,R95,R97, R99	Telcordia Issue 1	Level I		5.00	0.002250	.1054	444448754.52
105A522663	Resistor	R106	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A715009	Resistor	R112,R171,R187,R25	Telcordia Issue 1	Level I		4.00	0.002250	.0843	444448754.52
105A703909	Resistor	R113	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A708229	Resistor	R122,R359,R398, R493,R551,R586, R659,R679,R953	Telcordia Issue 1	Level I		9.00	0.002250	.1897	444448754.52
105A530163	Resistor	R123	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A700003	Resistor	FB13,R124,R127, R128,R130,R131, R395,R396,R405, R476,R480,R506, R523,R537,R545, R558,R604,R662	Telcordia Issue 1	Level I		18.00	0.002250	.3795	444448754.52
1059700001	Resistor	R125,R126,R155, R467	Telcordia Issue 1	Level I		4.00	0.002250	.0843	444448754.52
105A701003	Resistor	R129	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A705603	Resistor	R142,R147	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A701059	Resistor	R151	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A733009	Resistor	R267,R269,R483	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
1050512104	Resistor	R10,R160,R161,R164, R165,R166,R167, R168,R169,R170, R172,R173,R174, R175,R176,R177, R178,R179,R180, R181,R182,R183, R184,R185,R186, R188,R51	Telcordia Issue 1	Level I		27.00	0.002250	.5692	444448754.52
105A501039	Resistor	R189,R190,R193, R416,R434,R437, R438,R466,R477, R955	Telcordia Issue 1	Level I		10.00	0.002250	.2108	444448754.52
105A710009	Resistor	R228,R484,R544	Telcordia Issue 1	Level I		3.00	0.002250	.0632	444448754.52
105A708209	Resistor	R237,R240,R241, R242,R243,R244, R245,R251	Telcordia Issue 1	Level I		8.00	0.002250	.1687	444448754.52

AAEON Reliability Prediction Report

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Date 01. 21, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



Description Top-level assembly
File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A706829	Resistor	R246	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A747003	Resistor	R247,R248	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A549969	Resistor	R265,R30,R31,R317, R318,R410,R411, R489,R561,R562, R563,R564,R567, R568,R569,R570, R655	Telcordia Issue 1	Level I		17.00	0.002250	.3584	444448754.52
105A702729	Resistor	R547	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050706239	Resistor	R323,R325	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A510033	Resistor	R324,R331	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A703329	Resistor	R327	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A561903	Resistor	R330	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A564903	Resistor	R332	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A551163	Resistor	R340,R341,R342, R343	Telcordia Issue 1	Level I		4.00	0.002250	.0843	444448754.52
105A705623	Resistor	R344,R345	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A703303	Resistor	R348	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050510034	Resistor	R153,R319,R351,R36, R38,R425,R428,R464, R546,R554,R555, R556	Telcordia Issue 1	Level I		12.00	0.002250	.2530	444448754.52
1050514324	Resistor	R653	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050523204	Resistor	R654	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A702239	Resistor	R352,R385,R386, R387,R399,R400	Telcordia Issue 1	Level I		6.00	0.002250	.1265	444448754.52
105A705129	Resistor	R353,R355,R404, R409,R531,R954	Telcordia Issue 1	Level I		6.00	0.002250	.1265	444448754.52
105A705123	Resistor	R337	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A501539	Resistor	R338	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050524924	Resistor	R354	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A702039	Resistor	R451,R453,R503, R956	Telcordia Issue 1	Level I		4.00	0.002250	.0843	444448754.52
105A702263	Resistor	R384	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A549919	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A500239	Resistor	R11,R41	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A512103	Resistor	R419	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050520004	Resistor	R423	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A501633	Resistor	R431	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A507523	Resistor	R432	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050540214	Resistor	R435	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A701053	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52

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Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 24.60



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File Name TF-XTX-U15B-A10.RPJ
Time 13:24
Failure Rate 10.671959
MTBF 93,704

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
105A701009	Resistor	R439,R460,R461, R469,R471,R474, R475,R479	Telcordia Issue 1	Level I		8.00	0.002250	.1687	444448754.52
105A502839	Resistor	R446	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050517424	Resistor	R448	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050588724	Resistor	R454	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050549904	Resistor	R455	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050530124	Resistor	R462	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050513034	Resistor	R463,R465	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
105A575033	Resistor	R468	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A700109	Resistor	R473	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A535713	Resistor	R478	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A701529	Resistor	R495	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A551119	Resistor	R508,R548	Telcordia Issue 1	Level I		2.00	0.002250	.0422	444448754.52
1050501234	Resistor	R522	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
105A547509	Resistor	R560	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1050582514	Resistor	R350	Telcordia Issue 1	Level I		1.00	0.002250	.0211	444448754.52
1189622850	Capacitor	TC2,TC3	Telcordia Issue 1	Level I		2.00	0.004500	.0843	222224377.26
1189622152	Capacitor	TC4	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
1189633181	Capacitor	TC5	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
118961018A	Capacitor	TC6	Telcordia Issue 1	Level I		1.00	0.004500	.0422	222224377.26
106B510030	Resistor	TH1	Telcordia Issue 1	Level I		1.00	0.011144	.1044	89736670.86
14S4111010	Integrated Circuit	U1	Telcordia Issue 1	Level I	27.80	1.00	0.114457	1.0725	8736937.04
14S4053303	Integrated Circuit	U3	Telcordia Issue 1	Level I	31.00	1.00	0.133811	1.2539	7473233.57
14S4410101	Integrated Circuit	U5	Telcordia Issue 1	Level I	33.00	1.00	0.509499	4.7742	1962710.83
14S9022300	Integrated Circuit	U6	Telcordia Issue 1	Level I	27.70	1.00	0.113894	1.0672	8780131.46
14S4311401	Integrated Circuit	U7	Telcordia Issue 1	Level I	24.10	1.00	0.295829	2.7720	3380329.81
14S9055503	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.057652	.5402	17345532.46
1651203291	Connection	U11	Telcordia Issue 1	Level I		1.00	0.017830	.1671	56085419.28
14S9200100	Integrated Circuit	U15	Telcordia Issue 1	Level I	24.10	1.00	0.095171	.8918	10507376.69
14S2362400	Integrated Circuit	U28	Telcordia Issue 1	Level I		1.00	0.057652	.5402	17345532.46
14S4813905	Integrated Circuit	U20	Telcordia Issue 1	Level I		1.00	0.025573	.2396	39103324.41
14S6334610	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.022280	.2088	44882401.32
14S9850500	Integrated Circuit	U22	Telcordia Issue 1	Level I	29.70	1.00	0.125628	1.1772	7959995.08
1314111712	Integrated Circuit	U26	Telcordia Issue 1	Level I		1.00	0.057652	.5402	17345532.46
14S3088800	Integrated Circuit	U27	Telcordia Issue 1	Level I	28.30	1.00	0.117309	1.0992	8524515.41
14S2041500	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.057652	.5402	17345532.46

