

# COM-CV

Rev. A

## Reliability Prediction Report (MTBF)

Summary	Failure Rate: 12.437627 ppm MTBF: 80,401 Hours
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Issue date	Approval	Test Engineer
2012/06/25	Tom Lin	Jessica Chou

# Reliability Prediction (MTBF)

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**I . Model Name:** COM-CV Rev.A (969700CV04-D)

**II . Prediction Date:** Jun. 25, 2012

**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: 24.9 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-COM-CV Rev.A (969700CV04-D):

- Failure Rate: 12.437627ppm
- MTBF: 80,401 Hours

### AAEON Reliability Prediction Report

**Part Number** 969700CV04-D  
**Reference Des**  
**Date** 06. 25, 2012  
**Environment** GF, GU - Ground Fixed, Uncontrolled  
**Temp. (°C)** 24.90

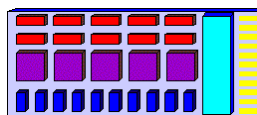


**Description** Top-level assembly  
**File Name** COM-CV\_A.RPJ  
**Time** 16:22  
**Failure Rate** 12.437627  
**MTBF** 80,401

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-COM-CV-A10-01	969700CV04-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	12.44	80401.19

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**Time** 16:22  
**Failure Rate** 12.437627  
**MTBF** 80,401

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1653212100	Connection	CN1	Telcordia Issue 1	Level I		1.00	0.006792	.0546	147230973.61
1655907130	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.001132	.0091	883385841.65
16540M0001	Connection	CN3,CN4	Telcordia Issue 1	Level I		2.00	0.124521	2.0023	8030780.38
1654930305	Connection	CN5	Telcordia Issue 1	Level I		1.00	0.001132	.0091	883385841.65
11E9510051	Capacitor	C1,C103,C13,C132, C15,C153,C154,C155, C156,C157,C164, C175,C182,C2,C209, C246,C266,C27,C285, C29,C3,C4,C5,C6,C7, C75,C85,C96,C98, C99	Telcordia Issue 1	Level I		30.00	0.004527	1.0918	220919666.10
11E9501091	Capacitor	C10,C138,C144,C152, C174,C185,C200, C206,C207,C208, C211,C214,C218, C220,C221,C222, C224,C225,C227, C228,C231,C232, C233,C234,C236, C240,C241,C245, C248,C249,C25,C263, C264,C267,C268, C275,C61,C69,C73, C77,C8,C80,C81,	Telcordia Issue 1	Level I		45.00	0.004527	1.6377	220919666.10
1121501691	Capacitor	C104,C105,C106, C107,C108,C109, C110,C111,C112, C113,C114,C115, C116,C117,C118, C119,C120,C121, C124,C125,C127, C128,C129,C130, C134,C158,C159, C160,C166,C167, C169,C170,C171, C179,C18,C180,C181, C189,C19,C193,C	Telcordia Issue 1	Level I		151.00	0.004527	5.4955	220919666.10
11E9501090	Capacitor	C11,C131,C16,C173, C177,C190	Telcordia Issue 1	Level I		6.00	0.004527	.2184	220919666.10

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**Time** 16:22  
**Failure Rate** 12.437627  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1129701791	Capacitor	C12,C123,C139,C140, C141,C142,C143, C146,C147,C148, C149,C150,C151, C163,C22,C243,C262, C291,C296,C297, C298,C299,C32,C33, C47,C49,C58,C86	Telcordia Issue 1	Level I		28.00	0.004527	1.0190	220919666.10
1124547290	Capacitor	C21,C48	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1129710391	Capacitor	C162,C28,C351,C352, C353	Telcordia Issue 1	Level I		5.00	0.004527	.1820	220919666.10
11E9622050	Capacitor	C210,C215,C216, C217,C219,C265, C307,C318,C337,C38	Telcordia Issue 1	Level I		10.00	0.004527	.3639	220919666.10
1129622690	Capacitor	C161,C165,C213,C39, C40,C41,C42,C78, C95	Telcordia Issue 1	Level I		9.00	0.004527	.3275	220919666.10
11A4433180	Capacitor	C45	Telcordia Issue 1	Level I		1.00	0.004527	.0364	220919666.10
1124427091	Capacitor	C284,C287	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1129710091	Capacitor	C244,C251,C255,C67, C68	Telcordia Issue 1	Level I		5.00	0.004527	.1820	220919666.10
11C4501790	Capacitor	C71	Telcordia Issue 1	Level I		1.00	0.004527	.0364	220919666.10
11E9647680	Capacitor	C187,C74,C83	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
1124418090	Capacitor	C93,C94	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
11E2647650	Capacitor	C101,C102,C133, C135	Telcordia Issue 1	Level I		4.00	0.004527	.1456	220919666.10
11C2510480	Capacitor	C122,C126,C136, C137	Telcordia Issue 1	Level I		4.00	0.004527	.1456	220919666.10
11E2510060	Capacitor	C168,C172,C183, C184,C197,C204, C293	Telcordia Issue 1	Level I		7.00	0.004527	.2548	220919666.10
1122701680	Capacitor	C176,C186,C192	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
11E1510050	Capacitor	C188	Telcordia Issue 1	Level I		1.00	0.004527	.0364	220919666.10
11C2501790	Capacitor	C191,C194,C314, C336	Telcordia Issue 1	Level I		4.00	0.004527	.1456	220919666.10
11E9610080	Capacitor	C212,C301,C370	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
1124522190	Capacitor	C292,C356	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1124468090	Capacitor	C294,C366	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1124427090	Capacitor	C303,C304	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1129610051	Capacitor	C305,C308,C315, C326,C332	Telcordia Issue 1	Level I		5.00	0.004527	.1820	220919666.10
11E9547680	Capacitor	C311,C334	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1124420090	Capacitor	C348,C361	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
11E1522680	Capacitor	C375,C376	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
16515A2991	Connection	DIMM1	Telcordia Issue 1	Level I		1.00	0.001132	.0091	883385841.65
1301005444	Semiconductor	D1,D10,D11,D18,D2, D3,D4,D5	Telcordia Issue 1	Level I		8.00	0.023812	1.5316	41994887.40







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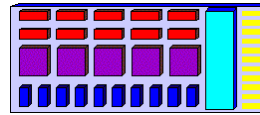


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**File Name** COM-CV\_A.RPJ  
**Time** 16:22  
**Failure Rate** 12.437627  
**MTBF** 80,401

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A700139	Resistor	R114,R119,R166, R168,R178,R211, R214,R215,R232, R242,R282,R291, R303,R326,R330, R332,R337,R338, R346,R438,R457, R459,R46,R460,R491, R499,R518,R521,R56, R91,R93,R98	Telcordia Issue 1	Level I		32.00	0.002263	.5823	441839332.19
105A708229	Resistor	R173,R213,R359, R422,R429,R455,R60, R61,R62,R63,R64, R65,R66,R67,R68, R75,R76,R77,R78, R79,R80,R81,R82, R83,R84,R85,R86, R87	Telcordia Issue 1	Level I		28.00	0.002263	.5095	441839332.19
105A501539	Resistor	R90	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050501234	Resistor	R525,R529,R92	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
1050507530	Resistor	R121,R329,R96	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
105A704729	Resistor	R104,R123,R144, R150,R154,R194, R256,R290,R304, R320,R328,R340, R352,R430,R431, R523,R535,R536, R537,R550,R590, R591	Telcordia Issue 1	Level I		22.00	0.002263	.4003	441839332.19
1059700001	Resistor	R107	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A700003	Resistor	R108,R129,R362, R393,R420,R498, R513,R527	Telcordia Issue 1	Level I		8.00	0.002263	.1456	441839332.19
105A501039	Resistor	R110,R125,R296, R306,R347,R365, R387,R436,R489, R546,R554,R557, R558,R566,R570, R571,R579,R581, R583	Telcordia Issue 1	Level I		19.00	0.002263	.3457	441839332.19
105A527403	Resistor	R112	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A533269	Resistor	R117	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A522669	Resistor	R118,R204	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
1050524904	Resistor	R122,R203	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A704709	Resistor	R128,R243,R423, R424	Telcordia Issue 1	Level I		4.00	0.002263	.0728	441839332.19
1050512104	Resistor	R130,R367	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19

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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A531613	Resistor	R131	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050504764	Resistor	R132,R301	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
1050507524	Resistor	R140,R477	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
1050513034	Resistor	R300,R573	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A701069	Resistor	R156,R439	Telcordia Issue 1	Level I		2.00	0.013580	.2184	73639888.70
105A505109	Resistor	R158,R197,R198, R199,R200,R201	Telcordia Issue 1	Level I		6.00	0.002263	.1092	441839332.19
1050510034	Resistor	R162,R202,R233, R234,R258,R259, R356,R395,R461, R485	Telcordia Issue 1	Level I		10.00	0.002263	.1820	441839332.19
105A739039	Resistor	R164	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A560469	Resistor	R171,R208	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A701059	Resistor	R176,R252,R378, R379,R380,R381, R487,R492	Telcordia Issue 1	Level I		8.00	0.002263	.1456	441839332.19
105A733009	Resistor	R185,R315	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
1050501004	Resistor	R195	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050590964	Resistor	R230,R254,R263, R433	Telcordia Issue 1	Level I		4.00	0.002263	.0728	441839332.19
105A707509	Resistor	R231	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A503309	Resistor	R238,R245,R257, R265,R270,R271, R272,R283,R284, R428,R467,R488	Telcordia Issue 1	Level I		12.00	0.002263	.2184	441839332.19
1050511009	Resistor	R247	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A515009	Resistor	R248,R249,R250	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
105A568103	Resistor	R266	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A710039	Resistor	R275,R292,R293, R307,R490	Telcordia Issue 1	Level I		5.00	0.002263	.0910	441839332.19
105A561909	Resistor	R297	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A702263	Resistor	R1,R313,R350	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
1050569824	Resistor	R339	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A505163	Resistor	R358	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A540213	Resistor	R366	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A500239	Resistor	R376,R577	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A500333	Resistor	R384	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050520004	Resistor	R388	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A573223	Resistor	R392	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A701003	Resistor	R394	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A703363	Resistor	R404	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A706829	Resistor	R409	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19

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**Time** 16:22  
**Failure Rate** 12.437627  
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1050505124	Resistor	R411	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A528723	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A549969	Resistor	R464,R465	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A523713	Resistor	R484	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050560434	Resistor	R495	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A703309	Resistor	R497,R541	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
105A562034	Resistor	R505	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A549919	Resistor	R510,R515,R520	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
1050502204	Resistor	R517	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A501053	Resistor	R524	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A705629	Resistor	R532	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A702209	Resistor	R538,R540,R544	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
105A708209	Resistor	R539,R542,R543	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
105A505629	Resistor	R545,R575,R582	Telcordia Issue 1	Level I		3.00	0.002263	.0546	441839332.19
1050561934	Resistor	R548	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A561924	Resistor	R549	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A513009	Resistor	R552	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A507509	Resistor	R555	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050703334	Resistor	R563	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050522114	Resistor	R564	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A551119	Resistor	R565	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050518034	Resistor	R574	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A501529	Resistor	R576	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050501834	Resistor	R580	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
1050505633	Resistor	R585	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
105A704763	Resistor	R586,R587	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
1600030803	Connection	SW1	Telcordia Issue 1	Level I		1.00	0.022640	.1820	44169292.08
1189933180	Capacitor	TC12,TC3,TC8,TC9	Telcordia Issue 1	Level I		4.00	0.004527	.1456	220919666.10
1189622150	Capacitor	TC2	Telcordia Issue 1	Level I		1.00	0.004527	.0364	220919666.10
1189615151	Capacitor	TC10,TC11,TC4	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
1189633193	Capacitor	TC5,TC6	Telcordia Issue 1	Level I		2.00	0.004527	.0728	220919666.10
1182622080	Capacitor	TC16,TC17,TC7	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
1189627150	Capacitor	TC13,TC14,TC18	Telcordia Issue 1	Level I		3.00	0.004527	.1092	220919666.10
14S3111600	Integrated Circuit	U1	Telcordia Issue 1	Level I		1.00	0.031767	.2554	31479651.13
1315422410	Semiconductor	U11,U2	Telcordia Issue 1	Level I		2.00	0.079375	1.2764	12598466.22
14S2591200	Integrated Circuit	U3	Telcordia Issue 1	Level I		1.00	0.058933	.4738	16968377.18

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1315446310	Semiconductor	U16,U25,U29,U4	Telcordia Issue 1	Level I		4.00	0.079375	2.5527	12598466.22
1315446310	Semiconductor	U34	Telcordia Issue 1	Level I	41.10	1.00	0.224275	1.8032	4458812.49
14S3621601	Integrated Circuit	U7	Telcordia Issue 1	Level I	25.80	1.00	0.335142	2.6946	2983811.65
14S9781800	Integrated Circuit	U8	Telcordia Issue 1	Level I		1.00	0.058933	.4738	16968377.18
14S3112400	Integrated Circuit	U9	Telcordia Issue 1	Level I		1.00	0.058933	.4738	16968377.18
14S4001000	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.026029	.2093	38418616.55
14S4160001	Integrated Circuit	U14	Telcordia Issue 1	Level I	30.30	1.00	0.131245	1.0552	7619343.79
14S5A00821	Integrated Circuit	U17,U18,U19	Telcordia Issue 1	Level I		3.00	0.026029	.6278	38418616.55
14S3050100	Integrated Circuit	U20	Telcordia Issue 1	Level I	26.50	1.00	0.349975	2.8138	2857349.82
1315762010	Semiconductor	U21,U22	Telcordia Issue 1	Level I		2.00	0.000000	.0000	.00
14S2321900	Semiconductor	U23	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1315482110	Semiconductor	U24,U28,U32	Telcordia Issue 1	Level I		3.00	0.079375	1.9145	12598466.22
14S3816700	Integrated Circuit	U26	Telcordia Issue 1	Level I		1.00	0.026029	.2093	38418616.55
14S4258300	Integrated Circuit	U27	Telcordia Issue 1	Level I	35.20	1.00	0.165844	1.3334	6029747.40
1315482410	Semiconductor	U31	Telcordia Issue 1	Level I		1.00	0.079375	.6382	12598466.22
1314108412	Integrated Circuit	U33	Telcordia Issue 1	Level I	53.10	1.00	1.596422	12.8354	626400.61
14S4851800	Integrated Circuit	U35	Telcordia Issue 1	Level I	32.10	1.00	0.143140	1.1509	6986145.44
14S5A00702	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.058933	.4738	16968377.18
14S5A12503	Integrated Circuit	U39	Telcordia Issue 1	Level I		1.00	0.058933	.4738	16968377.18
14S4036302	Integrated Circuit	U41	Telcordia Issue 1	Level I	49.00	1.00	0.309360	2.4873	3232479.74
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.2060	6666666.67
1231327053	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.2060	6666666.67
1231332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.2060	6666666.67
123131435J	Miscellaneous	Y5	Telcordia Issue 1	Level I		1.00	0.150000	1.2060	6666666.67
123132505D	Miscellaneous	Y6,Y7	Telcordia Issue 1	Level I		2.00	0.150000	2.4120	6666666.67
105A704739	Resistor	R317,R342	Telcordia Issue 1	Level I		2.00	0.002263	.0364	441839332.19
14S5A12506	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.026029	.2093	38418616.55
14S6203204	Integrated Circuit	U12	Telcordia Issue 1	Level I	33.30	1.00	0.151584	1.2188	6596982.00
1189633163	Capacitor	TC1	Telcordia Issue 1	Level I		1.00	0.004527	.0364	220919666.10
1211133075	Inductor	L9	Telcordia Issue 1	Level I		1.00	0.086004	.6915	11627350.85
1050530124	Resistor	R143	Telcordia Issue 1	Level I		1.00	0.002263	.0182	441839332.19
14S63CCV00	Integrated Circuit	U40	Telcordia Issue 1	Level I	30.20	1.00	0.438648	3.5268	2279731.30
14S6308002	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.035621	.2864	28073518.38
14S6203204	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.026029	.2093	38418616.55