

COM-LN

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 9.153850 ppm MTBF: 109,244 Hours
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Issue date	Approval	Test Engineer
2011/09/23	Jansin Lee	Rex Chang

Reliability Prediction (MTBF)

I . Model Name: COM-LN B0.3

II . Prediction Date: Sep. 23, 2011

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

IV . Predicted by: Rex Chang

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 26.0 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.

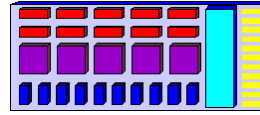
VIII. Prediction Result:

COM-LN B0.3:

- Failure Rate: 9.153850 ppm
- MTBF: 109,244 Hours

AAEON Reliability Prediction Report

Part Number 9697LUNA0J-D
Reference Des
Date 09. 28, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name COM-LN B03.RPJ
Time 8:19
Failure Rate 9.153850
MTBF 109,244

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-LN.Rev.B0.3_0_0	9697LUNA0J-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	9.15	109243.65

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File Name COM-LN B03.RPJ
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Failure Rate 9.153850
MTBF 109,244

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1050502204	Resistor	R105,R182,R184, R187,R188,R189, R241	Telcordia Issue 1	Level I		7.00	0.002268	.1734	440974090.03
1050502224	Resistor	R103,R131,R240,R31, R38,R39,R42,R83, R99	Telcordia Issue 1	Level I		9.00	0.002268	.2230	440974090.03
1050504724	Resistor	R125,R136,R315, R398,R432,R434, R453,R488,R55	Telcordia Issue 1	Level I		9.00	0.002268	.2230	440974090.03
1050507530	Resistor	R545	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
1050508224	Resistor	R1,R155,R160,R161, R178,R212,R4,R435, R436,R437,R438,R69, R70,R91	Telcordia Issue 1	Level I		14.00	0.002268	.3468	440974090.03
1050520004	Resistor	R417,R418	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
1050703924	Resistor	R368	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
1059500131	Resistor	R319	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
1059700001	Resistor	R439	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
1059701001	Resistor	R494	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
1059702261	Resistor	R426,R428	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
1059710003	Resistor	R397,R429	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A500103	Resistor	R197,R198,R200, R201	Telcordia Issue 1	Level I		4.00	0.002268	.0991	440974090.03
105A500133	Resistor	R431,R455,R474	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A500139	Resistor	R121,R157,R164,R17, R174,R175,R18,R192, R222,R228,R229, R232,R233,R239, R245,R247,R248, R250,R384,R386, R416,R433,R452, R500	Telcordia Issue 1	Level I		24.00	0.002268	.5946	440974090.03
105A500239	Resistor	R235,R27,R28	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A501033	Resistor	R116,R133,R487	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A501039	Resistor	R10,R106,R107,R108, R111,R114,R126, R127,R129,R130, R137,R138,R139, R144,R146,R149, R150,R151,R158, R159,R162,R163, R165,R166,R168, R172,R177,R180, R185,R191,R193, R194,R195,R221, R230,R231,R242, R243,R244,R261,	Telcordia Issue 1	Level I		66.00	0.002268	1.6350	440974090.03

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105A501053	Resistor	R176,R90	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A501333	Resistor	R499,R502,R728	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A501413	Resistor	R383	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A502003	Resistor	R124,R473	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A502033	Resistor	R186,R720,R732	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A502039	Resistor	R456	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A502233	Resistor	R758	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A503033	Resistor	R120,R716	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A503309	Resistor	R100,R102,R104, R204,R218,R249, R316,R75,R78,R79, R80,R81,R84,R85, R86,R87,R89,R92, R94,R96,R97,R98	Telcordia Issue 1	Level I		22.00	0.002268	.5450	440974090.03
105A505109	Resistor	R19,R20,R22,R23, R29,R30,R33,R37, R40,R41,R43,R44, R45	Telcordia Issue 1	Level I		13.00	0.002268	.3221	440974090.03
105A505123	Resistor	R224,R227	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A505603	Resistor	R731	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A506803	Resistor	R32	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A506829	Resistor	R369	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A507533	Resistor	R469,R516	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A510053	Resistor	R170	Telcordia Issue 1	Level I		1.00	0.013606	.1486	73495681.67
105A512003	Resistor	R445	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A512103	Resistor	R1003,R730	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A513033	Resistor	R493,R726,R727	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A515009	Resistor	R47,R48,R49	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A515033	Resistor	R480	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A516563	Resistor	R449,R451	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A520033	Resistor	R754	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A522663	Resistor	R117	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A523713	Resistor	R2	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A524963	Resistor	R115,R118,R152, R447	Telcordia Issue 1	Level I		4.00	0.002268	.0991	440974090.03
105A527003	Resistor	R375	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A528723	Resistor	R544	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A532413	Resistor	R119	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A533033	Resistor	R202,R203	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03

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File Name COM-LN B03.RPJ
Time 8:19
Failure Rate 9.153850
MTBF 109,244

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
105A536533	Resistor	R481	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A545303	Resistor	R122	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A549913	Resistor	R223	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A549919	Resistor	R478,R588	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A549963	Resistor	R11,R3	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A554923	Resistor	R491	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A556263	Resistor	R143,R21,R24	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
105A562033	Resistor	R725	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A566503	Resistor	R14	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A575003	Resistor	R9	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A575033	Resistor	R476	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A580623	Resistor	R479	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A580663	Resistor	R56,R61	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A584523	Resistor	R496	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A586603	Resistor	R477	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A588723	Resistor	R756	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A593123	Resistor	R546	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A595323	Resistor	R370	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A700003	Resistor	R497,R504,R63,R66, R709,R710,R717, R721,R723,R751, R752	Telcordia Issue 1	Level I		11.00	0.002268	.2725	440974090.03
105A700009	Resistor	R1002,R110,R112, R113,R12,R123,R13, R156,R169,R179, R181,R183,R190, R215,R217,R220, R259,R346,R348, R353,R380,R389, R391,R393,R400, R414,R421,R422, R427,R430,R444, R461,R472,R505, R506,R507,R508, R509,R510,R521,	Telcordia Issue 1	Level I		54.00	0.002268	1.3378	440974090.03
105A700103	Resistor	R251	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A701003	Resistor	R450	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
105A701009	Resistor	R196,R199,R501, R994,R995	Telcordia Issue 1	Level I		5.00	0.002268	.1239	440974090.03
105A702263	Resistor	R485,R498	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
105A703363	Resistor	R374	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03

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Time 8:19
Failure Rate 9.153850
MTBF 109,244

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1129610080	Capacitor	C106,C120,C132, C138,C145,C203, C205,C209,C212, C225,C228,C231, C235,C237,C241, C243,C245,C248, C260,C263,C276,C35, C36,C37,C38,C382, C39,C46,C50,C53, C707,C708,C94	Telcordia Issue 1	Level I		33.00	0.004535	1.6350	220487045.01
1129622690	Capacitor	C190,C208,C57,C63, C76	Telcordia Issue 1	Level I		5.00	0.004535	.2477	220487045.01
1129701790	Capacitor	C171,C251,C705	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
1129710090	Capacitor	C173,C174	Telcordia Issue 1	Level I		2.00	0.004535	.0991	220487045.01
1129710390	Capacitor	C414,C415,C416,C99	Telcordia Issue 1	Level I		4.00	0.004535	.1982	220487045.01
1129722091	Capacitor	C143,C146,C413	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
1182633080	Capacitor	TC23,TC29,TC30	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
1189610151	Capacitor	TC10,TC13,TC4,TC9	Telcordia Issue 1	Level I		4.00	0.004535	.1982	220487045.01
1189622152	Capacitor	TC18,TC2,TC3	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
1189627150	Capacitor	TC1,TC24,TC25,TC26, TC27,TC28	Telcordia Issue 1	Level I		6.00	0.004535	.2973	220487045.01
1189633160	Capacitor	C457,TC20,TC21	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
1189633184	Capacitor	C298	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01
1189633193	Capacitor	C439	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01
11C1547890	Capacitor	C217,C43	Telcordia Issue 1	Level I		2.00	0.004535	.0991	220487045.01
11C2510190	Capacitor	C247,C253,C397, C404,C419	Telcordia Issue 1	Level I		5.00	0.004535	.2477	220487045.01
11C2510480	Capacitor	C254,C370,C393, C401,C402,C403, C420,C421,C566, C567,C568,C577, C578,C613,C614	Telcordia Issue 1	Level I		15.00	0.004535	.7432	220487045.01
11C2522650	Capacitor	C398,C399,C400, C411,C417,C418	Telcordia Issue 1	Level I		6.00	0.004535	.2973	220487045.01
11C2522780	Capacitor	C394	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01
11C2539290	Capacitor	C423,C424,C425, C426,C427,C428, C429,C430,C431, C432,C433,C434	Telcordia Issue 1	Level I		12.00	0.004535	.5946	220487045.01
11C9510050	Capacitor	C308,C392,C706	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
11E1522680	Capacitor	C250,C83,C98	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
11E2501080	Capacitor	C246	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01

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11E2510060	Capacitor	C363	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01
11E9501090	Capacitor	C621	Telcordia Issue 1	Level I		1.00	0.004535	.0495	220487045.01
11E9501091	Capacitor	C170,C175,C176, C179,C199,C215, C216,C244,C300,C31, C34,C383,C391,C41, C436,C437,C438,C44, C47,C48,C49,C51, C52,C58,C59,C61, C62,C64,C67,C68, C69,C70,C71,C72, C73,C74,C75,C78	Telcordia Issue 1	Level I		38.00	0.004535	1.8828	220487045.01
11E9547680	Capacitor	C182,C198,C299	Telcordia Issue 1	Level I		3.00	0.004535	.1486	220487045.01
11E9622050	Capacitor	C191,C192,C196,C45, C65	Telcordia Issue 1	Level I		5.00	0.004535	.2477	220487045.01
1211000180	Inductor	L24	Telcordia Issue 1	Level I	16.30	3.00	0.003070	.1006	325755704.49
1211000180	Inductor	L18,L55	Telcordia Issue 1	Level I		3.00	0.002268	.0743	440974090.03
1211100102	Inductor	L10,L11,L12,L13,L4, L5	Telcordia Issue 1	Level I		6.00	0.002268	.1486	440974090.03
121110156A	Inductor	L14,L16	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
121110226C	Inductor	L20	Telcordia Issue 1	Level I	15.40	2.00	0.003021	.0660	330976433.48
121110226C	Inductor	L21	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
121230603L	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
12123C0003	Inductor	L8,L9	Telcordia Issue 1	Level I		2.00	0.002268	.0495	440974090.03
12123C0006	Inductor	FB64	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
12123C0010	Inductor	L1,L22,L3,L6	Telcordia Issue 1	Level I		4.00	0.002268	.0991	440974090.03
12123D0000	Inductor	L52	Telcordia Issue 1	Level I		1.00	0.002268	.0248	440974090.03
123131435J	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.150000	1.6387	6666666.67
123132505D	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.6387	6666666.67
1231332722	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.6387	6666666.67
1233332722	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.6387	6666666.67
1301005440	Semiconductor	D6	Telcordia Issue 1	Level I		1.00	0.023881	.2609	41874327.58
1301005442	Semiconductor	D11	Telcordia Issue 1	Level I		1.00	0.023881	.2609	41874327.58
1301005444	Semiconductor	D3,D4,D5	Telcordia Issue 1	Level I		3.00	0.023881	.7827	41874327.58
1301053040	Semiconductor	D10,D7,D8	Telcordia Issue 1	Level I		3.00	0.023881	.7827	41874327.58
1301400541	Semiconductor	D45	Telcordia Issue 1	Level I		1.00	0.023881	.2609	41874327.58
1305099140	Semiconductor	D1,D2	Telcordia Issue 1	Level I		2.00	0.023881	.5218	41874327.58
1310390413	Semiconductor	Q36,Q4,Q5	Telcordia Issue 1	Level I		3.00	0.023881	.7827	41874327.58
1311138610	Semiconductor	Q6,Q7	Telcordia Issue 1	Level I		2.00	0.023881	.5218	41874327.58
1311390612	Semiconductor	Q1	Telcordia Issue 1	Level I		1.00	0.023881	.2609	41874327.58

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1314108412	Integrated Circuit	Q55	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
1314111713	Integrated Circuit	U22	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
1314880010	Integrated Circuit	Q8	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
1315050311	Semiconductor	Q21,Q50	Telcordia Issue 1	Level I		2.00	0.079603	1.7392	12562298.27
1315230211	Semiconductor	Q25	Telcordia Issue 1	Level I		1.00	0.079603	.8696	12562298.27
1315422410	Semiconductor	Q29	Telcordia Issue 1	Level I	20.70	2.00	0.277681	6.0670	3601248.64
1315422410	Semiconductor	Q28	Telcordia Issue 1	Level I		2.00	0.159207	3.4785	6281149.14
1315422610	Semiconductor	Q30	Telcordia Issue 1	Level I	14.40	1.00	0.236271	2.5811	4232433.07
1315443510	Semiconductor	Q22	Telcordia Issue 1	Level I		1.00	0.079603	.8696	12562298.27
1315482110	Semiconductor	Q31	Telcordia Issue 1	Level I		1.00	0.079603	.8696	12562298.27
1315482410	Semiconductor	Q32	Telcordia Issue 1	Level I		1.00	0.079603	.8696	12562298.27
1315495710	Semiconductor	Q17	Telcordia Issue 1	Level I		1.00	0.079603	.8696	12562298.27
1315700216	Semiconductor	Q10,Q11,Q12,Q13, Q15,Q16,Q18,Q23, Q33,Q35,Q37,Q38, Q39,Q40,Q41,Q42, Q44,Q46,Q47,Q48, Q49,Q9	Telcordia Issue 1	Level I		22.00	0.079603	19.1315	12562298.27
1315997510	Semiconductor	Q19,Q20	Telcordia Issue 1	Level I		2.00	0.159207	3.4785	6281149.14
14S2538000	Integrated Circuit	U26	Telcordia Issue 1	Level I	18.80	1.00	0.216466	2.3648	4619667.49
14S3050100	Integrated Circuit	U4	Telcordia Issue 1	Level I	12.20	1.00	0.052147	.5697	19176410.10
14S3111600	Integrated Circuit	U24	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
14S3112400	Integrated Circuit	U25	Telcordia Issue 1	Level I	16.90	1.00	0.067038	.7323	14916959.16
14S3112500	Integrated Circuit	U55	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
14S3621601	Integrated Circuit	U7	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
14S4081110	Integrated Circuit	U23	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
14S4195710	Integrated Circuit	U27	Telcordia Issue 1	Level I		1.00	0.026183	.2860	38193355.79
14S4180010	Integrated Circuit	U1	Telcordia Issue 1	Level I	12.50	1.00	0.053002	.5790	18867121.96
14S4256701	Integrated Circuit	U6	Telcordia Issue 1	Level I		1.00	0.026183	.2860	38193355.79
14S4280121	Integrated Circuit	U5	Telcordia Issue 1	Level I	16.40	1.00	0.065293	.7133	15315467.96
14S4751100	Integrated Circuit	U13	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
14S4963500	Integrated Circuit	U12	Telcordia Issue 1	Level I		1.00	0.026183	.2860	38193355.79
14S5A00704	Integrated Circuit	U11,U3	Telcordia Issue 1	Level I		2.00	0.026183	.5721	38193355.79
14S5A00821	Integrated Circuit	U15,U19	Telcordia Issue 1	Level I		2.00	0.059366	1.2971	16844654.92
1651900860	Connection	U10	Telcordia Issue 1	Level I		1.00	0.004552	.0497	219695067.68
14S9LM6300	Integrated Circuit	U30	Telcordia Issue 1	Level I		1.00	0.059366	.6485	16844654.92
1540510380	Resistor	RN14,RN16,RN17	Telcordia Issue 1	Level I		3.00	0.006246	.2047	160102772.00

