

**Reliability Prediction
Summary**

File Name: ENH1350EXT-25C.rfp
System: 1102A1230300
Ref Des: Telcordia Issue 3
Description:

Failure Rate: 3873.304252
MTBF (hrs): 258,177
Temperature: 25
Environment: GF, GU - Ground Fixed, Uncontrolled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
ENH1350EXT	1102A1230300	Telcordia Issue 3	1	3873.304252	258,177

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
7024A0023000	Connection	J704,J705	13.802412	2	41.824066
7104A0251000	Inductor	L632	0.260450	1	0.322681
7006A0008b50	Connection	J5	13.802412	1	23.897574
7016A1644004	Connection	PCB	16.311941	1	31.084669
7024A0050040	Connection	BJ1,BJ4	13.802412	2	41.824066
7104A0105000	Inductor	L28	0.260450	1	0.322681
7104A0166000	Inductor	CM1,CM2, CM3,CM4	0.260450	4	1.163176
7104A0318000	Inductor	L36	0.260450	1	0.322681
7104A0432000	Inductor	L71	0.260450	1	0.322681
7104A0442000	Inductor	LB14,LB17	0.260450	2	0.608357
7104A0481000	Inductor	LB23,LB5	0.260450	2	0.608357
7107A0015000	Inductor	L69,L72,L 73,L74,LB 6	0.260450	5	1.437952
7107A0018000	Inductor	LB13,LB15 ,LB16,LB1 8	0.260450	4	1.163176
7107A0035030	Inductor	LB1,LB2,L B3,LB4	0.260450	4	1.163176
7107A0140000	Inductor	FB1,FB3,F B5	0.260450	3	0.888135
7107A0169000	Inductor	LB12	0.260450	1	0.322681
7107A0175000	Inductor	E1,E5	0.260450	2	0.608357
7107A0190000	Inductor	E6	0.260450	1	0.322681
7107A0194000	Inductor	E10,E11,E 12,E17,E1 8,E7,E8	0.260450	7	1.983715
7118A0196000	Inductor	T2	0.260450	1	0.322681
7121A0068501	Optical Device	LED3,LED 4,LED8	136.291332	3	632.854001
7121A0222400	Optical Device	LED6	136.291332	1	265.520640
7135A0826000	Miscellaneous	Y1	11.792907	1	20.907436
72E00*0000X0	Resistor	E2,E3,E4, E9,R239,R 246,R422, R499,R50 0,R971,R9 8,R99	0.189418	12	2.483248
72E0010106X0	Resistor	R250,R25 4,R814	0.189418	3	0.675577
72E0010306X0	Resistor	R1863,R6 3	0.189418	2	0.466796
72E003910620	Resistor	R965	0.189418	1	0.252073
72E0047306X0	Resistor	R961	0.189418	1	0.252073
72E010010400	Resistor	R69	0.189418	1	0.252073
72E013020420	Resistor	R1924	0.189418	1	0.252073
72E016230400	Resistor	R425	0.189418	1	0.252073

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72E020*00420	Resistor	R711,R736,R744,R836	0.189418	4	0.881300
72E022000400	Resistor	R251,R253,R818	0.189418	3	0.675577
72E040220420	Resistor	R1925,R717,R837	0.189418	3	0.675577
72E052330401	Resistor	R1923	0.189418	1	0.252073
72E068010400	Resistor	R429	0.189418	1	0.252073
72E082520420	Resistor	R424	0.189418	1	0.252073
72E1068406X0	Resistor	R969	0.189418	1	0.252073
72E110020400	Resistor	R964	0.189418	1	0.252073
72E1178304X0	Resistor	R1922	0.189418	1	0.252073
72E1249204X0	Resistor	R1920	0.189418	1	0.252073
72E1274104X0	Resistor	R966	0.189418	1	0.252073
72E1442104X0	Resistor	R1921	0.189418	1	0.252073
72E164910400	Resistor	R960	0.189418	1	0.252073
72E1649204X0	Resistor	R970	0.189418	1	0.252073
72E20*000000	Resistor	L633,L634,R726,R727,R732,R733,R735,R740,R742,R743,R789,R790	0.189418	12	2.483248
72E2075006X0	Resistor	R653,R654,R655,R656	0.189418	4	0.881300
72E2523204X0	Resistor	R963	0.189418	1	0.252073
72E402040600	Resistor	R968	0.189418	1	0.252073

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72E90*000000	Resistor	C1017,C1019,C1043,C1052,C878,C879,C901,C905,L42,L46,L49,L53,L56,L62,R20,R221,R369,R371,R373,R400,R402,R421,R423,R426,R427,R428,R431,R432,R435,R440,R497,R498,R54,R546,R547,R550,R581,R605,R617,R631,R632,R634,R665,R669,R670,R673,R674,R677,R679,R680,R683,R688	0.189418	70	13.767033
72E901010620	Resistor	R833	0.189418	1	0.252073
72E901030600	Resistor	R411,R412,R414,R416,R442,R443,R445,R448,R449,R451,R453,R628,R642,R643,R644,R650,R651,R652,R791	0.189418	19	3.863479
72E904720620	Resistor	R616	0.189418	1	0.252073
72E910000420	Resistor	R252	0.189418	1	0.252073
72E910010400	Resistor	R321,R56,R57,R58,R59,R61,R62,R668,R681	0.189418	9	1.886827
72E910030400	Resistor	R407,R718,R737,R746,R835	0.189418	5	1.085075

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72E913020400	Resistor	R722,R83 9	0.189418	2	0.466796
72E915000400	Resistor	R597,R59 8,R600,R6 01	0.189418	4	0.881300
72E915010400	Resistor	R410	0.189418	1	0.252073
72E918*00400	Resistor	R698,R70 8	0.189418	2	0.466796
72E922*00400	Resistor	R797	0.189418	1	0.252073
72E924000420	Resistor	R60	0.189418	1	0.252073
72E924010400	Resistor	R404	0.189418	1	0.252073
72E924020420	Resistor	R721,R83 8	0.189418	2	0.466796
72E930000400	Resistor	R699,R70 0,R709,R7 10	0.189418	4	0.881300
72E930020400	Resistor	R738	0.189418	1	0.252073
72E939*00420	Resistor	R596,R59 9	0.189418	2	0.466796
72E949*90400	Resistor	R671,R67 2,R684,R6 85,R697,R 707	0.189418	6	1.287467
72E95*600400	Resistor	R430,R59 0,R593	0.189418	3	0.675577
72E951000400	Resistor	R618	0.189418	1	0.252073
72E954920400	Resistor	R747	0.189418	1	0.252073
72E956*00420	Resistor	R614	0.189418	1	0.252073
72E959010400	Resistor	R123	0.189418	1	0.252073
72E960*40400	Resistor	R322,R32 3,R324,R3 25,R326,R 327,R328, R329,R33 0,R331,R3 32,R333,R 334,R335, R337,R33 8,R339,R3 41,R342,R 344	0.189418	20	4.059770
72E980620400	Resistor	R741,R74 9	0.189418	2	0.466796
72E982500400	Resistor	R591,R59 2,R594,R5 95	0.189418	4	0.881300
73D91*204080	Inductor	L57,L58,L 63,L64	0.260450	4	1.163176
73D91*504080	Inductor	L55,L61	0.260450	2	0.608357

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73D91*704080	Inductor	L44,L47,L51,L54	0.260450	4	1.163176
73D91*804080	Inductor	L43,L45,L50,L52	0.260450	4	1.163176
741A05001000	Semiconductor	D10,D11	12.075421	2	40.308394
741A11000026	Semiconductor	D340,D342,D343,D361,D362,D363,D364,D365	12.075421	8	128.500621
741A21000060	Semiconductor	D166	12.075421	1	23.465874
741A52360006	Semiconductor	D168	12.075421	1	23.465874
741A52390000	Semiconductor	D167	12.075421	1	23.465874
741A56000020	Semiconductor	D38	12.075421	1	23.465874
741A58000000	Semiconductor	PD3	12.075421	1	23.465874
742A14980000	Integrated Circuit	U48	3.754809	1	5.647920
742A22330000	Integrated Circuit	U45,U47,U52	7.424954	3	28.681867
742A23750006	Integrated Circuit	U711	6.930299	1	13.477505
742A4018010N	Integrated Circuit	U34	27.750941	1	53.967864
742A50080010	Integrated Circuit	U162	3.754809	1	5.647920
742A51281690	Integrated Circuit	U4	11.888088	1	18.453166
742A54360000	Integrated Circuit	U716	3.754809	1	5.647920
742A74186016	Integrated Circuit	U49	3.754809	1	5.647920
742A8072010n	Integrated Circuit	U8	17.725688	1	34.471535
742A85303200	Integrated Circuit	BU1,BU5	12.466232	2	41.639554
742A85748100	Integrated Circuit	AU1,AU5	17.725688	2	59.207125
742A98173000	Integrated Circuit	U17	6.930299	1	13.477505
743A06053910	Miscellaneous	AU2,AU6,BU3,BU7	0.960000	4	4.572877
89B003906000	Capacitor	C2139	0.211575	1	0.238689
89B70*501010	Capacitor	C872,C877,C898,C903	0.211575	4	0.900528
89B70*801010	Capacitor	C870,C876,C897,C902	0.211575	4	0.900528

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89B701006010	Capacitor	C1015,C1016,C1020,C1064,C1065,C1066,C1067,C1068,C1069,C574,C576,C615,C617,C619,C620,C801,C804,C808,C813,C815,C816,C817,C827,C835,C839,C844,C846,C848,C856,C862,C863,C864,C865,C867,C871,C874,C882,C888,C889,C890,C891,C892,C896,C900	0.211575	44	9.489150
89B701016010	Capacitor	C798,C829	0.211575	2	0.461495
89B701506051	Capacitor	C1040,C109,C928,C957,C974	0.211575	5	1.118504
89B702*21010	Capacitor	C820,C821,C851,C852,C866,C875,C893,C904	0.211575	8	1.769290
89B704*71010	Capacitor	C1057,C1063	0.211575	2	0.461495
89B708*22010	Capacitor	C802,C803,C833,C834	0.211575	4	0.900528
90B001037012	Capacitor	C1118,C1119	0.211575	2	0.461495
90B001047010	Capacitor	C768,C769,C770,C771	0.211575	4	0.900528
90B001047062	Capacitor	C343	0.211575	1	0.238689
90B006827060	Capacitor	C2138	0.211575	1	0.238689

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90B081047060	Capacitor	C1108,C2135,C912,C954,C970	0.211575	5	1.118504
90B081057061	Capacitor	C1116	0.211575	1	0.238689
90B081057062	Capacitor	C2134	0.211575	1	0.238689
90B082258050	Capacitor	C624	0.211575	1	0.238689
90B084758010	Capacitor	C523,C535,C591,C618,C623,C626,C705,C738,C739,C861,C887	0.211575	11	2.417252
90B101047050	Capacitor	C1124,C1125	0.211575	2	0.461495
90B101047XX1	Capacitor	C1120,C2131	0.211575	2	0.461495
90B104727XX0	Capacitor	C1123	0.211575	1	0.238689
90B181068060	Capacitor	C1023,C1025,C518,C534,C537,C588,C668,C670,C680,C713,C733,C794,C825,C857,C883,C940,C946,C949,C956,C965,C966	0.211575	21	4.567326
90B182268310	Capacitor	C1110,C1111,C920,C921,C958,C976	0.211575	6	1.335866
90B201047062	Capacitor	C1117,C2133,C400	0.211575	3	0.681688
90B201057XX0	Capacitor	C1122	0.211575	1	0.238689
90B201057XX1	Capacitor	C1121,C2132	0.211575	2	0.461495
90B282268061	Capacitor	C1024,C1026,C1112,C1126,C485,C520,C910,C941,C945,C947,C948,C955,C969	0.211575	13	2.848235
90B284768000	Capacitor	C583,C959	0.211575	2	0.461495

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90B301027060	Capacitor	C148,C1842,C1843,C2143,C776,C777,C778,C779	0.211575	8	1.769290
90B301047050	Capacitor	C1056,C792	0.211575	2	0.461495
90B382268XX1	Capacitor	C1127	0.211575	1	0.238689
90B3b4768000	Capacitor	C2140,C2141	0.211575	2	0.461495
90B401057XX0	Capacitor	C2085	0.211575	1	0.238689
90B402257010	Capacitor	C2136,C2137	0.211575	2	0.461495
90B482268000	Capacitor	C951,C967	0.211575	2	0.461495
90B901027010	Capacitor	C1058,C1059,C1114,C483,C486,C507,C525,C621,C622,C930	0.211575	10	2.201492
90B901037010	Capacitor	C551,C552,C553,C555,C557,C558,C560,C561,C562,C563,C564,C565,C566,C575,C578,C580,C582,C589,C873,C899	0.211575	20	4.352756

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90B981047010	Capacitor	C1060,C1061,C1062,C356,C357,C404,C410,C411,C412,C413,C414,C416,C417,C418,C426,C427,C428,C429,C430,C431,C432,C433,C434,C446,C447,C480,C481,C487,C489,C49,C491,C492,C493,C495,C496,C497,C498,C499,C50,C500,C501,C502,C503,C504,C505,C506,C508,C509,C510,C511,	0.211575	111	23.770476
90B981047011	Capacitor	C1104,C1106,C1107,C1115,C911,C918,C922,C926,C953,C960,C961,C962,C963,C968,C973,C977,C978,C979	0.211575	18	3.923384
90B981058060	Capacitor	C482,C488,C519,C538,C586,C590	0.211575	6	1.335866
90B9a1047000	Capacitor	C795,C818,C819,C822,C826,C849,C850,C853,C858,C859,C860,C884,C885,C886	0.211575	14	3.063501

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6309A9443000	Connection	RPSMA JACK	13.802412	1	23.897574
7024A0091000	Connection	IPEX (1.37)	13.802412	1	23.897574
7106A0051000	Inductor	CORE	0.260450	1	0.322681
6309A9443000	Connection	RPSMA JACK	13.802412	1	23.897574
7024A0091000	Connection	IPEX (1.37)	13.802412	1	23.897574
7106A0051000	Inductor	CORE	0.260450	1	0.322681
7006A0002020	Connection	CN1	13.802412	1	23.897574
7006A0008b10	Connection	RJ1,RJ2	13.802412	2	41.824066
7011A0432020	Miscellaneous	F1	0.800000	1	1.309109
7013A00110*0	Connection	J1	13.802412	1	23.897574
7017A0161000	Switching Device	SW1	20.076235	1	35.700256
7104A0469000	Inductor	LS2	0.260450	1	0.322681
7104A0470000	Inductor	LF1	0.260450	1	0.322681
7118A0149000	Inductor	U4	0.260450	1	0.322681
7121A0001500	Optical Device	D6	136.291332	1	265.520640
7126A0075000	Inductor	T1	7.103189	1	9.934173
73C011012250	Inductor	LS1	0.260450	1	0.322681
741A10004000	Semiconductor	DS1	12.075421	1	23.465874
741A20600000	Semiconductor	BD1	12.075421	1	23.465874
743A81700000	Optical Device	U2	1014.056931	1	1966.417480
745A10650000	Semiconductor	Q1	28.179446	1	41.500270
82A051068430	Capacitor	C8	43.916765	1	63.978452
82A051278430	Capacitor	CS3	43.916765	1	63.978452
82A052778430	Capacitor	CS2	43.916765	1	63.978452
82A054768430	Capacitor	C1	43.916765	1	63.978452
84A953347480	Capacitor	CX1	43.916765	1	63.978452
88C322228000	Capacitor	CY2	43.916765	1	63.978452
88C326818000	Capacitor	CY1	43.916765	1	63.978452
7016A1199007	Connection	PCB	16.311941	1	31.084669
72E112020400	Resistor	RS6	0.189418	1	0.252073
72E115830400	Resistor	RS16	0.189418	1	0.252073
72E175*004X0	Resistor	R24,R25,R26,R27	0.189418	4	0.881300
72E20*0000X0	Resistor	R23	0.189418	1	0.252073
72E2100104X0	Resistor	RS13	0.189418	1	0.252073
72E2130204X0	Resistor	R22	0.189418	1	0.252073
72E2180204X0	Resistor	RS14	0.189418	1	0.252073
72E2220304X0	Resistor	RS5	0.189418	1	0.252073
72E224010420	Resistor	RS11	0.189418	1	0.252073
72E2510004X0	Resistor	RS8	0.189418	1	0.252073
72E2510104X0	Resistor	R16	0.189418	1	0.252073
72E2866204X0	Resistor	R15	0.189418	1	0.252073
72E4010006X0	Resistor	R10,R21	0.189418	2	0.466796

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72E401030620	Resistor	R8	0.189418	1	0.252073
72E401040600	Resistor	R19,R20,R3,R4	0.189418	4	0.881300
72E404700600	Resistor	R6	0.189418	1	0.252073
72E41*0004X0	Resistor	R11,R12,R13,R18	0.189418	4	0.881300
72E4220404X0	Resistor	R2,R5	0.189418	2	0.466796
72E451000420	Resistor	R9,RS1,R S2,RS3	0.189418	4	0.881300
741A10000060	Semiconductor	D1,D13,D4	12.075421	3	55.962972
741A58000020	Semiconductor	D3,D9,DP2	12.075421	3	55.962972
742A43130000	Integrated Circuit	U3	3.754809	1	5.647920
742A77380000	Integrated Circuit	U1	3.754809	1	5.647920
89B204716XX0	Capacitor	C4,C9	0.211575	2	0.461495
89B302216XX0	Capacitor	CS1	0.211575	1	0.238689
90B201037XX0	Capacitor	CS5	0.211575	1	0.238689
90B201047050	Capacitor	C15	0.211575	1	0.238689
90B201047XX1	Capacitor	CS6	0.211575	1	0.238689
90B282268310	Capacitor	C12,C13	0.211575	2	0.461495
90B301027XX0	Capacitor	C2	0.211575	1	0.238689
90B301047060	Capacitor	C11	0.211575	1	0.238689