

**Reliability Prediction  
Summary**

**File Name:** EWS357APv3.rfp  
**System:** TELCORDIA ISSUE 3  
**Ref Des:** 1102A1371300  
**Description:**

**Failure Rate:** 2640.601828  
**MTBF (hrs):** 378,702  
**Temperature:** 45  
**Environment:** GB, GC - Ground Benign, Controlled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
EWS357APv3	TELCORDIA ISSUE 3	1102A137 1300	1	2640.601828	378,702

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7024A0104000	Connection	1.37接頭	12.139239	1	21.017947
7024A0104000	Connection	1.37接頭	12.139239	1	21.017947
7024A0104000	Connection	1.37接頭	12.139239	1	21.017947
7006A0008f60	Connection	J82	12.139239	1	21.017947
7014A0050010	Connection	J22	12.139239	1	21.017947
7017A0077000	Switching Device	SW1	17.657074	1	31.398420
5730A2883601	Integrated Circuit	U30(燒碼 IC)	16.175688	1	25.108550
742A30118020	Integrated Circuit	燒碼IC (U30)	6.875633	1	10.672632
7016A203100n	Connection	PCB	14.346373	1	27.339006
7024A0050050	Connection	J4,J5,J6,J7	12.139239	4	66.112585
7104A0238000	Inductor	L71	0.160942	1	0.199397
7104A0281000	Inductor	L123	0.160942	1	0.199397
7104A0317000	Inductor	L640	0.160942	1	0.199397
7104A0482000	Inductor	L22,L26	0.160942	2	0.375927
7104A0564000	Inductor	L72	0.160942	1	0.199397
7104A0631000	Inductor	L20,L21,L24	0.160942	3	0.548812
7104A0749000	Inductor	L1	0.160942	1	0.199397
7104A0755000	Inductor	L316	0.160942	1	0.199397
7104A0779000	Inductor	L639	0.160942	1	0.199397
7104A0866000	Inductor	L23	0.160942	1	0.199397
7107A0081000	Inductor	LB10,LB11, LB12, LB24, LB25, LB26, LB27, LB3, LB9	0.160942	9	1.560982
7107A0240000	Inductor	LB23	0.160942	1	0.199397
7107A0224000	Inductor	E1,E2,E3, E4	0.160942	4	0.718771
7118A0196000	Inductor	T3	0.160942	1	0.199397
7121A0053601	Optical Device	LED12,LED13,LED14	183.085751	3	850.138807
7121A0085400	Optical Device	LED11	183.085751	1	356.684796
7125A1363000	Miscellaneous	FL3,FL4	0.000000	2	0.000000
7125A1412000	Miscellaneous	BFL1,BFL2	0.000000	2	0.000000
7135A0927000	Miscellaneous	Y1	8.828537	1	19.284289

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72E00*0000X0	Resistor	E5,E6,E7, E8,R1060, R1061,R1 062,R106 3,R1064,R 1065,R19 76,R217,R 2263,R22 68,R2270, R2272,R4 04,R77,R9 02	0.189586	19	3.866906
72E0010006X0	Resistor	R4,R6356, R6357	0.117049	3	0.417465
72E0010406X0	Resistor	R2122	0.117049	1	0.155765
72E0033106X0	Resistor	R1145,R2 399,R240 0,R2401	0.117049	4	0.544589
72E0056206X0	Resistor	R123	0.117049	1	0.155765
72E0100204X0	Resistor	R125,R22 32	0.117049	2	0.288451
72E0100304X0	Resistor	R220	0.117049	1	0.155765
72E0200304X0	Resistor	R495	0.117049	1	0.155765
72E0249104X0	Resistor	R334	0.117049	1	0.155765
72E0249304X0	Resistor	R494	0.117049	1	0.155765
72E0267304X0	Resistor	R221	0.117049	1	0.155765
72E0340104X0	Resistor	R2316	0.117049	1	0.155765
72E0365104X0	Resistor	R2229	0.117049	1	0.155765
72E0665204X0	Resistor	R2239	0.117049	1	0.155765
72E0910104X0	Resistor	R14	0.117049	1	0.155765
72E10*0000X0	Resistor	LB1,LB105 ,LB106,LB 13,LB14,L B15,LB16, LB17,LB18 ,LB19,LB2 ,LB20,LB2 1,LB22,LB 6,LB7,LB8	0.117049	17	2.144451
72E112710400	Resistor	R2231	0.117049	1	0.155765
72E1249204X0	Resistor	R2230	0.117049	1	0.155765
72E190920420	Resistor	R1895	0.117049	1	0.155765
72E20*0000X0	Resistor	L637,L638 ,R2241	0.117049	3	0.417465

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72E2075006X0	Resistor	R2314,R2315,R661,R664	0.117049	4	0.544589
72E8*01004X1	Resistor	R2233	0.117049	1	0.155765
72E90*0000X0	Resistor	C262,C343,C9526,C9527,CS49,CS54,R1,R107,R109,R110,R138,R153,R170,R2,R226,R230,R232,R235,R236,R239,R241,R242,R243,R247,R248,R25,R253,R260,R262,R264,R267,R273,R274,R276,R280,R282,R283,R284,R285,R286,R287,R290,R291,R292,R294,R305,R311,R312,R313,R316,R317,R318	0.117049	104	12.555514
72E901030620	Resistor	R111,R15,R165,R166,R167,R169,R2394,R258,R266,R270,R324,R356,R361,R370,R423,R445,R448,R449,R450,R451,R452,R493	0.117049	22	2.750969

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72E9047206X0	Resistor	R10,R108, R113,R11 4,R12,R12 2,R19,R20 ,R210,R21 1,R2121,R 214,R215, R22,R224, R225,R22 64,R2276, R234,R23 8,R2397,R 2398,R24, R244,R24 9,R251,R2 57,R26,R2 63,R281,R 293,R307, R309,R31, R318,R32 1,R374,R3 78,R379,R 385,R386, R388,R39 2,R40,R40 0,R477,R6 ,R6353,R6 36,R9,R91 ,R92,R93,	0.117049	56	6.835366
72E910*004X0	Resistor	R88	0.117049	1	0.155765
72E9100004X0	Resistor	R2395,R3 49,R547,R 81	0.117049	4	0.544589
72E9100104X0	Resistor	R2319,R2 71,R279,R 3302,R48 2,R483,R4 84,R485,R 6350,R63 51,R71,R7 2	0.117049	12	1.534493
72E9100204X0	Resistor	R131,R40 1	0.117049	2	0.288451
72E9100304X0	Resistor	R128,R13, R174,R38 3,R393	0.117049	5	0.670509
72E9105204X0	Resistor	R99	0.117049	1	0.155765

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72E9130204X0	Resistor	R136,R315	0.117049	2	0.288451
72E9150104X0	Resistor	R389	0.117049	1	0.155765
72E9200104X0	Resistor	R396	0.117049	1	0.155765
72E922*004X0	Resistor	R84	0.117049	1	0.155765
72E9240004X0	Resistor	R277,R540,R6276	0.117049	3	0.417465
72E9240104X0	Resistor	R463	0.117049	1	0.155765
72E9300204X0	Resistor	R112	0.117049	1	0.155765
72E9301104X0	Resistor	R437	0.117049	1	0.155765
72E9330204X0	Resistor	R98	0.117049	1	0.155765
72E9360204X0	Resistor	R397	0.117049	1	0.155765
72E9402104X0	Resistor	R350,R351	0.117049	2	0.288451
72E949*904X0	Resistor	R1114,R1115,R341,R381	0.117049	4	0.544589
72E960*404X0	Resistor	R297,R302,R529,R530,R532,R533,R538,R539,R541,R542,R543,R544,R545,R546,R548,R549,R550,R551,R56,R606,R615,R616,R6352,R6354,R968	0.117049	25	3.113726
72E9750204X0	Resistor	R5,R7,R8	0.117049	3	0.417465
72E982*504X0	Resistor	R345,R346,R362,R363	0.117049	4	0.544589
72E993*104X0	Resistor	R344,R359	0.117049	2	0.288451
73D9*5004080	Inductor	L13,L15	0.160942	2	0.375927
73D9*7004150	Inductor	L16,L18	0.160942	2	0.375927
73D92*104080	Inductor	L10,L11,L2,L3	0.160942	4	0.718771
73D92*404080	Inductor	R41,R50	0.160942	2	0.375927
73D92*704150	Inductor	L4,L6,L7,L9	0.160942	4	0.718771

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73D922*09080	Inductor	R79,R80,R89,R90	0.160942	4	0.718771
741A10063300	Semiconductor	D45,LD10,LD11,LD12,LD9	7.461862	5	52.973802
741A11000016	Semiconductor	D340,D342,D343,D361,D362,D363,D364,D365	7.461862	8	79.405421
741A04130000	Semiconductor	D6	7.461862	1	14.500456
741A20100000	Semiconductor	D38	7.461862	1	14.500456
741A31000040	Semiconductor	D36,D41	7.461862	2	24.908090
741A58000000	Semiconductor	PD7	7.461862	1	14.500456
741A65800000	Semiconductor	D366	7.461862	1	14.500456
742A13585600	Integrated Circuit	S3,S4	6.875633	2	19.083142
742A16010000	Integrated Circuit	U109	3.077273	1	4.628782
742A16050000	Integrated Circuit	U3	3.077273	1	4.628782
742A16530000	Integrated Circuit	U13,U14,U47	11.034037	3	42.623403
742A23780000	Integrated Circuit	U6210	7.640029	1	14.857733
742A45681300	Integrated Circuit	U35,U37	83.411457	2	278.609914
742A50210110	Integrated Circuit	U6	71.677510	1	139.392826
742A50520110	Integrated Circuit	U11	57.067169	1	110.979775
742A50850000	Integrated Circuit	U716	16.181845	1	24.340456
742A52561680	Integrated Circuit	U45,U48	16.632984	2	46.164417
742A54960000	Integrated Circuit	U12	7.375550	1	11.094176
742A74145040	Integrated Circuit	U33,U34,U39,U40	3.077273	4	15.366034
742A75801010	Integrated Circuit	U10,U2,U41,U44	8.695856	4	43.421826
742A80720100	Integrated Circuit	U23	38.370100	1	74.619175
743A06054130	Optical Device	U36,U38	189.234401	2	629.158782
745A13830000	Semiconductor	Q5,Q6	19.222019	2	51.196778
745A30100000	Semiconductor	Q18	50.107969	1	73.794716
745A39040006	Semiconductor	Q14,Q15,Q16,Q17,Q19,Q20	3.092998	6	24.326817
89B101026XX1	Capacitor	C7055	0.113525	1	0.128295
89B70*201010	Capacitor	C102,C122,C99	0.113525	3	0.365775
89B70*401010	Capacitor	C132	0.113525	1	0.128295

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89B70*601010	Capacitor	C110,C112,C120,C125	0.113525	4	0.483199
89B701*21050	Capacitor	C30,C31,C38,C46,C51,C52,C60,C65	0.113525	8	0.949352
89B701*51050	Capacitor	C123,C126,C244,C71	0.113525	4	0.483199
89B701*81010	Capacitor	C106,C108	0.113525	2	0.247626
89B701006051	Capacitor	C1,C104,C105,C137,C138,C139,C140,C2,C230,C232,C235,C236,C239,C241,C247,C248,C25,C251,C260,C269,C270,C284,C287,C288,C296,C299,C304,C35,C41,C411,C423,C425,C426,C429,C43,C440,C445,C457,C468,C476,C480,C483,C484,C486,C5,C53,C56,C59,C69,C7,C70,C95,C9532,C9533	0.113525	54	6.237274
89B701506XX0	Capacitor	C152,C196,C513	0.113525	3	0.365775
89B702*22060	Capacitor	CS44	0.113525	1	0.128295
89B704*71060	Capacitor	C610	0.113525	1	0.128295
89B705*61010	Capacitor	C119,C92	0.113525	2	0.247626
89B706*82060	Capacitor	C7097	0.113525	1	0.128295



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90B001047XX0	Capacitor	C111,C1270,C1272,C153,C157,C158,C163,C164,C226,C229,C329,C384,C519,C520,C557,C559,C560,C563,C575,C7051,C784,C785,C787,C788	0.113525	24	2.795880
90B003327XX0	Capacitor	C2137,C7068	0.113525	3	0.365775
90B081057XX0	Capacitor	C1807,C195,C478,C505,C508,C565	0.113525	6	0.716789
90B081068XX0	Capacitor	C227,C238,C265,C301,C311,C312,C315,C368,C374,C375,C378,C379,C380,C398,C4,C442,C447,C461,C462,C497,C507,C525,C546,C94	0.113525	24	2.795880
90B084758XX0	Capacitor	C245,C257,C332,C358,C608,C637,C76,C77	0.113525	8	0.949352
90B101037XX2	Capacitor	C7054	0.113525	1	0.128295
90B104747XX0	Capacitor	C7045,C7056	0.113525	2	0.247626
90B108237XX0	Capacitor	C7047	0.113525	1	0.128295
90B181068XX0	Capacitor	C1303,C477,C493	0.113525	3	0.365775

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90B181068XX2	Capacitor	C2142,C644,C686,C7052	0.113525	4	0.483199
90B182268XX1	Capacitor	BC12,C100,C11,C114,C115,C116,C12,C121,C131,C14,C141,C146,C148,C151,C154,C155,C156,C159,C160,C161,C162,C165,C166,C169,C170,C225,C228,C327,C376,C383,C501,C506,C510,C514,C517,C524,C551,C552,C561,C566,C567,C574,C7058,C7064,C86,C9309,C9310,C97	0.113525	48	5.550008
90B184758XX0	Capacitor	C1301,C9,CS77	0.113525	3	0.365775
90B201027XX1	Capacitor	C651,C7129,C7727,C7728	0.113525	4	0.483199
90B201047XX3	Capacitor	C1875,C7046,C7065	0.113525	3	0.365775
90B282268XX0	Capacitor	C587,C614	0.113525	2	0.247626
90B301027XX0	Capacitor	C652,C653	0.113525	2	0.247626
90B301057XX0	Capacitor	C7048	0.113525	1	0.128295
90B301067XX0	Capacitor	C1269	0.113525	1	0.128295
90B402257XX0	Capacitor	C1874	0.113525	1	0.128295
90B484767XX0	Capacitor	C1858,C7718	0.113525	2	0.247626

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90B801027160	Capacitor	C1841,C1842,C9520	0.113525	3	0.365775
90B901027060	Capacitor	C615	0.113525	1	0.128295
90B901037XX1	Capacitor	C101,C113,C242,C249,C252,C259,C283,C292,C36,C435,C448,C459,C471,C482,C490,C50,C7159	0.113525	17	1.989915
90B981047XX0	Capacitor	C127,C128,C129,C130,C136,C1401,C1402,C144,C145,C214,C222,C233,C234,C237,C243,C246,C250,C26,C261,C266,C271,C274,C277,C278,C280,C282,C285,C289,C290,C293,C294,C295,C297,C3,C300,C303,C305,C308,C309,C310,C313,C319,C320,C321,C322,C323,C324,C325,C326,C33,C330,C333	0.113525	178	20.401595

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90B981047XX1	Capacitor	C18,C19,C20,C22,C530,C584,C585,C592,C596,C598,C599,C6,C600,C604,C605,C606,C609,C619,C675,C676,C677,C678,C679,C680,C681,C682,C683,C684,C685,C687,C688,C689,C690,C691,C692,C693,C695,C696,C697,C698,C699,C700,C701,C702,C703,C704,C705,C706,C707,C708,C8,C9463	0.113525	52	6.008225
90B981058XX0	Capacitor	C133,C150,C206,C21,C256,C267,C279,C347,C382,C413,C463,C515,C595,C603,C623,C625,C641,C645	0.113525	18	2.105179
90B982248XX0	Capacitor	C103,C107	0.113525	2	0.247626

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90B982258XX0	Capacitor	C134,C135,C149,C16,C276,C281,C286,C298,C405,C409,C428,C430,C431,C443,C446,C449,C453,C460,C464,C470,C489,C498,C499,C509,C511,C68	0.113525	26	3.025841
90B984747XX0	Capacitor	C9534	0.113525	1	0.128295
90B984758XX0	Capacitor	C433,C439	0.113525	2	0.247626
742A60100500	Integrated Circuit	U9	50.803241	1	98.798178