

Standard Reliability Prediction Report

Part Number DSP 60-12
Model Bellcore Lssue 6
Method Method Case 3
Environment GB, GC - Ground Benign, Controlled
Temperature 40.00

Description Top-level assembly
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 1.716603
MTBF 582,546

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
DSP 60-12			1.00	1.716603	582,546
Connection			1.00	0.071484	13,989,183
Transistor			1.00	0.134401	7,440,445
Fuse			1.00	0.009000	111,111,111
PCB			1.00	0.011400	87,719,298
Diode			1.00	0.133237	7,505,437
Capacitor			1.00	0.732997	1,364,263
Zeners			1.00	0.053538	18,678,374
Resistors			1.00	0.071542	13,977,870
ICs			1.00	0.353991	2,824,929
Opto-couplers			1.00	0.108000	9,259,259
Core			1.00	0.001464	683,247,906
Transformers			1.00	0.035551	28,128,796

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Part Number
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Method Method Case 3
Environment GB, GC - Ground Benign, Controlled
Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.071484
MTBF 13,989,183

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
JC113-A0	Connection	JC1	0.016457	1.00	0.016457
JC114-A0	Connection	JC2	0.016457	1.00	0.016457
JC115-A0	Connection	JC3	0.010963	1.00	0.010963
JC116-A0	Connection	JC4,JJ2	0.010963	2.00	0.021925
JP072-A0	Connection	ZD4	0.005681	1.00	0.005681

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Part Number
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Method Method Case 3
Environment GB, GC - Ground Benign, Controlled
Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.134401
MTBF 7,440,445

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
MX001-C0	Semiconductor	Q4	0.017624	1.00	0.017624
MX003-A0	Semiconductor	Q3	0.017624	1.00	0.017624
MX003-A0	Semiconductor	Q7	0.017624	1.00	0.017624
MX003-A0	Semiconductor	Q8	0.017624	1.00	0.017624
MX009-A0	Semiconductor	Q6	0.017624	1.00	0.017624
MX012-A0	Semiconductor	Q5	0.017624	1.00	0.017624
TR035-A0	Semiconductor	Q2	0.017624	1.00	0.017624
TF098-A0	Semiconductor	Q1	0.011031	1.00	0.011031

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Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.009000
MTBF 111,111,111

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
FT016-A0	Miscellaneous	FUSE1	0.009000	1.00	0.009000

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Environment GB, GC - Ground Benign, Controlled
Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.011400
MTBF 87,719,298

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
BC602-A1	Other	P.C.B.	0.011400	1.00	0.011400

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Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.133237
MTBF 7,505,437

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
DB012-A0	Semiconductor	DB1	0.008812	1.00	0.008812
DF004-A0	Semiconductor	D1	0.008812	1.00	0.008812
DL028-A0	Semiconductor	LED1	0.012826	1.00	0.012826
DL029-A0	Semiconductor	LED2	0.012826	1.00	0.012826
DU002-A0	Semiconductor	D9	0.011700	1.00	0.011700
DU002-A0	Semiconductor	D10	0.011700	1.00	0.011700
DU021-A0	Semiconductor	D4	0.008812	1.00	0.008812
MG005-A0	Semiconductor	D3	0.005400	1.00	0.005400
MG005-A0	Semiconductor	D5	0.005400	1.00	0.005400
MG005-A0	Semiconductor	D6	0.008812	1.00	0.008812
MG005-A0	Semiconductor	D7	0.008812	1.00	0.008812
MG005-A0	Semiconductor	D8	0.008812	1.00	0.008812
MG005-A0	Semiconductor	D2	0.008812	1.00	0.008812
DS095-A0	Semiconductor	D11	0.011700	1.00	0.011700

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Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.732997
MTBF 1,364,263

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
CE0151PMIA	Capacitor	C3	0.070888	1.00	0.070888
CJ0101EMKA	Capacitor	C5	0.041809	1.00	0.041809
CJ0470FMKA	Capacitor	C4	0.035606	1.00	0.035606
CL0102EMNA	Capacitor	C16	0.190605	1.00	0.190605
CL0471DMNA	Capacitor	C17	0.149935	1.00	0.149935
CL0561DMNA	Capacitor	C15	0.169051	1.00	0.169051
CM0103KJAA	Capacitor	C2	0.006265	1.00	0.006265
CM0103KJAA	Capacitor	C13	0.006265	1.00	0.006265
CX0224LKGA	Capacitor	C1	0.047159	1.00	0.047159
CY0222KMHA	Capacitor	C11	0.005889	1.00	0.005889
MF0102FKGD	Capacitor	C9	0.000668	1.00	0.000668
MF0102FKGD	Capacitor	C8	0.000668	1.00	0.000668
MF0102UKFD	Capacitor	C12	0.000668	1.00	0.000668
MF0102UKFD	Capacitor	C14	0.001006	1.00	0.001006
MF0104FKGD	Capacitor	C10	0.000668	1.00	0.000668
MF0183FKGD	Capacitor	C19	0.004217	1.00	0.004217
MF0472FKGD	Capacitor	C18	0.000668	1.00	0.000668
VA001-A0	Capacitor	MV1	0.000294	1.00	0.000294
MF0102FKGD	Capacitor	C7	0.000668	1.00	0.000668

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Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.053538
MTBF 18,678,374

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
DZ010-A0	Semiconductor	ZD5	0.007541	1.00	0.007541
DZ015-A0	Semiconductor	ZD2	0.010677	1.00	0.010677
DZ021-C0	Semiconductor	ZD3	0.008812	1.00	0.008812
DZ030-A0	Semiconductor	ZD7	0.007541	1.00	0.007541
DZ034-B0	Semiconductor	ZD1	0.011426	1.00	0.011426
DZ030-A0	Semiconductor	ZD6	0.007541	1.00	0.007541

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Environment GB, GC - Ground Benign, Controlled
Temperature 40.00

Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.071542
MTBF 13,977,870

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
RP12014FAD	Resistor	R39	0.002461	1.00	0.002461
RP12014FAD	Resistor	R38	0.002461	1.00	0.002461
RD05645JAD	Resistor	R1	0.003018	1.00	0.003018
RT001-B1	Resistor	RT1	0.027744	1.00	0.027744
RA0R474FAD	Resistor	R2	0.002842	1.00	0.002842
MR02244JCD	Resistor	R17	0.000454	1.00	0.000454
MR02244JCD	Resistor	R12	0.000454	1.00	0.000454
MR02244JCD	Resistor	R11	0.000454	1.00	0.000454
MR02244JCD	Resistor	R16	0.000454	1.00	0.000454
MR01004JCD	Resistor	R48	0.000454	1.00	0.000454
MR01004JCD	Resistor	R47	0.000454	1.00	0.000454
MP01002FCD	Resistor	R4	0.000386	10.00	0.003862
MP01502FCD	Resistor	R3	0.000386	10.00	0.003862
MP75022FCD	Resistor	R46	0.000386	10.00	0.003862
MP61912FCD	Resistor	R15	0.000454	1.00	0.000454
MP51002FCD	Resistor	R35	0.000454	1.00	0.000454
MP47012FCD	Resistor	R32	0.000454	1.00	0.000454
MP18032FCD	Resistor	R18	0.000454	1.00	0.000454
MP51002FCD	Resistor	R34	0.000454	1.00	0.000454
MP47012FCD	Resistor	R44	0.000454	1.00	0.000454
MP47012FCD	Resistor	R42	0.000454	1.00	0.000454
MP47012FCD	Resistor	R36	0.000386	1.00	0.000386
MP47002FCD	Resistor	R10	0.000454	1.00	0.000454
MP47002FCD	Resistor	R20	0.000454	1.00	0.000454
MP14322FCD	Resistor	R30	0.000454	1.00	0.000454
MP30012FCD	Resistor	R29	0.000454	1.00	0.000454
MP3R902FCD	Resistor	R4	0.000454	1.00	0.000454
MP3R902FCD	Resistor	R3	0.000454	1.00	0.000454
MP39022FCD	Resistor	R14	0.000454	1.00	0.000454
MP30012FCD	Resistor	R41	0.000386	1.00	0.000386
MP30012FCD	Resistor	R43	0.000386	1.00	0.000386
MP20002FCD	Resistor	R13	0.000454	1.00	0.000454
MP15002FCD	Resistor	R7	0.000454	1.00	0.000454
MP15002FCD	Resistor	R8	0.000454	1.00	0.000454
MP15002FCD	Resistor	R6	0.000454	1.00	0.000454
MP12032FCD	Resistor	R31	0.000454	1.00	0.000454
MP12032FCD	Resistor	R26	0.000454	1.00	0.000454
MP12032FCD	Resistor	R25	0.000454	1.00	0.000454
MP12032FCD	Resistor	R24	0.000454	1.00	0.000454
MP12032FCD	Resistor	R27	0.000454	1.00	0.000454
MP10022FCD	Resistor	R5	0.000454	1.00	0.000454
MP10022FCD	Resistor	R21	0.000454	1.00	0.000454
MP10022FCD	Resistor	R19	0.000454	1.00	0.000454
MP10012FCD	Resistor	R37	0.000454	1.00	0.000454
MP10012FCD	Resistor	R33	0.000454	1.00	0.000454
MP10002FCD	Resistor	R40	0.000454	1.00	0.000454
MP01502FCD	Resistor	R28	0.000454	1.00	0.000454
MP03302FCD	Resistor	R22	0.000454	1.00	0.000454
MP03302FCD	Resistor	R23	0.000454	1.00	0.000454
VT102-B0	Resistor	VR1	0.003018	1.00	0.003018

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Description
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Date Feb 22, 2006
Failure Rate 0.353991
MTBF 2,824,929

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
UA009-A0	Integrated Circuit	U4	0.088053	1.00	0.088053
UA079-A0	Integrated Circuit	U1	0.265938	1.00	0.265938

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Description
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Date Feb 22, 2006
Failure Rate 0.108000
MTBF 9,259,259

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
UP002-A0	Semiconductor	U2	0.054000	1.00	0.054000
UP002-A0	Semiconductor	U3	0.054000	1.00	0.054000

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Description
Input Voltage 115Vac
Date Feb 22, 2006
Failure Rate 0.001464
MTBF 683,247,906

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
LB039-A0	Inductor	L1	0.000732	1.00	0.000732
LB044-A0	Inductor	L2	0.000732	1.00	0.000732

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Failure Rate 0.035551
MTBF 28,128,796

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
LF024-A0	Inductor	LF1	0.027808	1.00	0.027808
LT723-A0	Inductor	T1	0.007742	1.00	0.007742