Evalue Technology Inc.

Evalue Technology Inc.

ECM-3412

Reliability Prediction Report

(MTBF)

MTBF Number : EMTBF-341201
Release Date : 2002/02/25

Issue Stamp	QA Manager	QE Manager	Test Engineer
Winston	Eddy	Winston	Charles Wu

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
14S2252600	IC,Logic	1	

MIC2526-1_(SO8)
TFR=132.7302 [1.18%] FR=132.7302 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.998838 BasicR= 0.998838
NMOS Gates:3 QuLev:I Hermetic Trise:25.00

14S3128420 IC,Logic 1

CMD PACS-1284-04Q
TFR= 96.0962 [0.85%] FR= 96.0962 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.999159 BasicR= 0.999159
CMOS Gates:1260 QuLev:I Hermetic Trise:25.00

14S3149100 IC,Logic 1

MK1491-06S CLOCK GEN
TFR=110.6280 [0.98%] FR=110.6280 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.999031 BasicR= 0.999031
CMOS Gates:5100 QuLev:I Hermetic Trise:25.00

14S3161100 IC,Logic 1

VIA VT1611A AC'97 2.1
TFR=116.6291 [1.04%] FR=116.6291 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.998979 BasicR= 0.998979
CMOS Gates:8500 QuLev:I Hermetic Trise:25.00

14S4021310 IC,Logic 2

HIN213ECA_(SSOP)
TFR=147.4498 [1.31%] FR= 73.7249 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.999354 BasicR= 0.999354
CMOS Gates:9 QuLev:I Hermetic Trise:25.00

14S4030000 IC,Logic 1

GX1- 200B (200MHZ/ 1.6V)
TFR=188.0883 [1.67%] FR=188.0883 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.998354 BasicR= 0.998354
CMOS Gates:815000 QuLev:I Hermetic Trise:25.00

14S4382300 IC,Logic 1

IC TI TPS3832-33DBVR
TFR= 31.8874 [0.28%] FR= 31.8874 CF= 1.00000 T= 25.00C PIFY=7.5
MissionR= 0.999721 BasicR= 0.999721
CMOS Gates:15000 QuLev:I Hermetic Trise:0.0

14S4397701 IC,Logic 1

W83977F-A SUPER I/O
TFR= 73.3623 [0.65%] FR= 73.3623 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.999358 BasicR= 0.999358
CMOS Gates:4 QuLev:I Hermetic Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
14S4553010	IC,Logic	1	

CS5530A-BGA
TFR=161.1916 [1.43%] FR=161.1916 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.998589 BasicR= 0.998589
CMOS Gates:187370 QuLev:I Hermetic Trise:25.00

14S4813900 IC,Logic 2

RTL8139C_(MICRO BGA)
TFR=255.0059 [2.27%] FR=127.5029 CF= 1.00000 T= 50.00C PIFY=2.4
MissionR= 0.998884 BasicR= 0.998884
CMOS Gates:20000 QuLev:I Hermetic Trise:25.00

14S5801400 IC,Logic 1

74HCT14D hex Schmitt inverters
TFR= 18.9445 [0.17%] FR= 18.9445 CF= 1.00000 T= 25.00C PIFY=6.1
MissionR= 0.999834 BasicR= 0.999834
CMOS Gates:6 QuLev:I NonHermetic Trise:0.0

14S5837301 IC,Logic 2

74HCT374DW octal D flip-flops 3ST
TFR= 40.1018 [0.36%] FR= 20.0509 CF= 1.00000 T= 25.00C PIFY=6.1
MissionR= 0.999824 BasicR= 0.999824
CMOS Gates:82 QuLev:I NonHermetic Trise:0.0

14S6202003 IC,ROM/PROM 1

EN29F002NT-70J PLCC32
TFR=342.8616 [3.05%] FR=342.8616 CF= 1.00000 T= 50.00C PIFY=2.0
MissionR= 0.997001 BasicR= 0.997001
CMOS Kbits:256 QuLev:I Hermetic Trise:25.00

14S6334602 IC,ROM/PROM 2

93C46_(SO8)
TFR=165.3845 [1.47%] FR= 82.6923 CF= 1.00000 T= 50.00C PIFY=2.2
MissionR= 0.999276 BasicR= 0.999276
CMOS Kbits:1 QuLev:I Hermetic Trise:25.00

1251011010 IC,Linear 1

SC1101_(SO8)
TFR= 28.6921 [0.25%] FR= 28.6921 CF= 1.00000 T= 50.00C PIFY=2.2
MissionR= 0.999749 BasicR= 0.999749
Trans:1 QuLev:I Hermetic Trise:25.00

1302012A40 IC,Linear 1

LM385-1.2 SOT-23
TFR= 28.6921 [0.25%] FR= 28.6921 CF= 1.00000 T= 50.00C PIFY=2.2
MissionR= 0.999749 BasicR= 0.999749
Trans:1 QuLev:I Hermetic Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1314108411	IC,Linear	1	

REG(LINEAR) AMS1084CM
TFR=240.1060 [2.13%] FR=240.1060 CF= 1.00000 T= 50.00C PIFY=2.2
MissionR= 0.997899 BasicR= 0.997899
Trans:125 QuLev:I Hermetic Trise:25.00

PartNumber	PartType	Qty	RefDes
14S4048500	IC,Linear	2	

LTC485_(SO8)
TFR=105.6085 [0.94%] FR= 52.8043 CF= 1.00000 T= 50.00C PIFY=2.2
MissionR= 0.999538 BasicR= 0.999538
Trans:4 QuLev:I Hermetic Trise:25.00

PartNumber	PartType	Qty	RefDes
1310390410	Transistor	4	

2N3904 SMD
TFR= 5.67260 [0.05%] FR= 1.41815 CF= 1.00000 T= 50.00C S=0.0% PIFY=19.8
MissionR= 0.999988 BasicR= 0.999988
NPN Si QuLev:I Hermetic Trise:25.00
Pstress:0.0%(0.0W/0.0100W) Vstress:0.50%(0.2000V/40.0000V)

PartNumber	PartType	Qty	RefDes
1315441010	Transistor	1	

SI4410_(SO8)
TFR=132.1461 [1.17%] FR=132.1461 CF= 1.00000 T= 25.00C S=100.0% PIFY=2.1
MissionR= 0.998843 BasicR= 0.998843
FET Si Switch QuLev:I Hermetic Trise:0.0
Pstress:100.0%(2.5000W/2.5000W)

PartNumber	PartType	Qty	RefDes
1315993410	Transistor	1	

SI9934DY_(SO8)
TFR=256.4133 [2.28%] FR=256.4133 CF= 1.00000 T= 50.00C S=100.0% PIFY=1.6
MissionR= 0.997756 BasicR= 0.997756
FET Si Switch QuLev:I Hermetic Trise:25.00
Pstress:100.0%(2.0000W/2.0000W)

PartNumber	PartType	Qty	RefDes
1300414840	Diode	2	

1N4148 SMD
TFR= 10.8695 [0.10%] FR= 5.43477 CF= 1.00000 T= 50.00C S=0.0% PIFY=7.8
MissionR= 0.999952 BasicR= 0.999952
GeneralPurpose Si QuLev:I Hermetic Trise:25.00
Imax:2.0000A Istress:0.0% Vmax:75.0000V Vstress:0.05%

PartNumber	PartType	Qty	RefDes
1301005442	Diode	1	

BAT54A
TFR= 2.71739 [0.02%] FR= 2.71739 CF= 1.00000 T= 50.00C S=0.0% PIFY=7.8
MissionR= 0.999976 BasicR= 0.999976
GeneralPurpose Si QuLev:I Hermetic Trise:25.00
Imax:0.2000A Istress:0.0% Vmax:30.0000V Vstress:0.17%

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1301103540	Diode	1	

MBRD1035CTL SMD
TFR= 9.65967 [0.09%] FR= 9.65967 CF= 1.00000 T= 50.00C S=0.0% PIFY=7.0
MissionR= 0.999915 BasicR= 0.999915
VoltageRegulator QuLev:I Hermetic Trise:25.00
Pmax:35.0000W Pstress:0.0%

| 1301582040 | Diode | 1 | |

1N5820 SMD
TFR= 9.65967 [0.09%] FR= 9.65967 CF= 1.00000 T= 50.00C S=0.0% PIFY=7.0
MissionR= 0.999915 BasicR= 0.999915
VoltageRegulator QuLev:I Hermetic Trise:25.00
Pmax:40.0000W Pstress:0.0%

| 1304400200 | Diode | 1 | |

LED1
TFR= 14.1524 [0.13%] FR= 14.1524 CF= 1.00000 T= 50.00C S=0.0% PIFY=6.4
MissionR= 0.999876 BasicR= 0.999876
GeneralPurpose Ge QuLev:I Hermetic Trise:25.00
Imax:0.2000A Istress:0.0% Vmax:5.0000V Vstress:0.0%

| 14S3006000 | Diode | 1 | |

PACDN006---CMD
TFR= 2.71739 [0.02%] FR= 2.71739 CF= 1.00000 T= 50.00C S=0.0% PIFY=7.8
MissionR= 0.999976 BasicR= 0.999976
GeneralPurpose Si QuLev:I Hermetic Trise:25.00
Imax:0.0200A Istress:0.0% Vmax:0.5000V Vstress:0.0%

| 1655204020 | Diode | 1 | |

POWER_4V DIP
TFR= 14.1524 [0.13%] FR= 14.1524 CF= 1.00000 T= 50.00C S=0.0% PIFY=6.4
MissionR= 0.999876 BasicR= 0.999876
GeneralPurpose Ge QuLev:I Hermetic Trise:25.00
Imax:0.2000A Istress:0.0% Vmax:5.0000V Vstress:1.00%

| 1050501011 | Resistor | 2 | |

100_0603
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 100.00 ohms QuLev:I
Trise:25.00 Pmax:25.0000W Pd:0.25000W Pstr:1.00%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1050501111	Resistor	1	

110_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 110.00 ohms QuLev:I
Trise:25.00 Pmax:25.0000W Pd:0.25000W Pstr:1.00%(Calc=Pd/Pmax)

10505047A1	Resistor	1	

4.7_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 4.70 ohms QuLev:I
Trise:25.00 Pmax:531.9149W Pd:5.31915W Pstr:1.00%(Calc=Pd/Pmax)

1050518701	Resistor	1	

187_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 187.00 ohms QuLev:I
Trise:25.00 Pmax:13.3690W Pd:0.13369W Pstr:1.00%(Calc=Pd/Pmax)

10505499A1	Resistor	8	

44.9_0603
TFR= 7.53854 [0.07%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 49.90 ohms QuLev:I
Trise:25.00 Pmax:4.55400W Pd:0.04554W Pstr:1.00%(Calc=Pd/Pmax)

10505604A1	Resistor	1	

60.4_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 60.40 ohms QuLev:I
Trise:25.00 Pmax:4.55400W Pd:0.04554W Pstr:1.00%(Calc=Pd/Pmax)

1050700001	Resistor	7	

0_0603
TFR= 6.51103 [0.06%] FR= 0.930147 CF= 1.00000 T= 50.00C S=0.0% PIFY=4.9
MissionR= 0.999992 BasicR= 0.999992
Film 0.0 ohms QuLev:I
Trise:25.00 Pmax:0.01000W Pd:0.0W Pstr:0.0%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1050701001	Resistor	7	

10_0603
TFR= 6.59622 [0.06%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 10.00 ohms QuLev:I
Trise:25.00 Pmax:250.0000W Pd:2.50000W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050701021	Resistor	23	

1K_0603
TFR= 21.6733 [0.19%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 1.00 Kohms QuLev:I
Trise:25.00 Pmax:2.50000W Pd:0.02500W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050701031	Resistor	51	

CR03_0603
TFR= 48.0582 [0.43%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 10.00 Kohms QuLev:I
Trise:25.00 Pmax:0.25000W Pd:0.00250W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050701041	Resistor	1	

100K_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 100.00 Kohms QuLev:I
Trise:25.00 Pmax:0.02500W Pd:0.00025W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050701051	Resistor	1	

1M_0603
TFR= 0.930147 [0.01%] FR= 0.930147 CF= 1.00000 T= 50.00C S=0.0% PIFY=4.9
MissionR= 0.999992 BasicR= 0.999992
Film 1.00 Megohms QuLev:I
Trise:25.00 Pmax:0.01000W Pd:0.0W Pstr:0.0%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050701061	Resistor	2	

10M_0603
TFR= 11.1618 [0.10%] FR= 5.58088 CF= 1.00000 T= 50.00C S=0.0% PIFY=4.9
MissionR= 0.999951 BasicR= 0.999951
Film 10.00 Megohms QuLev:I
Trise:25.00 Pmax:0.01000W Pd:0.0W Pstr:0.0%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1050701531	Resistor	2	

15K_(0603,5%)
TFR= 1.88464 [0.02%] FR= 0.942320 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 15.00 Kohms QuLev:I
Trise:25.00 Pmax:0.16667W Pd:0.00167W Pstr:1.00%(Calc=Pd/Pmax)

1050701821	Resistor	2	

1.8K_0603
TFR= 1.88464 [0.02%] FR= 0.942320 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 1.80 Kohms QuLev:I
Trise:25.00 Pmax:0.16667W Pd:0.00167W Pstr:1.00%(Calc=Pd/Pmax)

1050702201	Resistor	15	

22_0603
TFR= 14.1348 [0.13%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 22.00 ohms QuLev:I
Trise:25.00 Pmax:113.6364W Pd:1.13636W Pstr:1.00%(Calc=Pd/Pmax)

1050702221	Resistor	2	

2.2K_0603
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 2.20 Kohms QuLev:I
Trise:25.00 Pmax:1.36360W Pd:0.01364W Pstr:1.00%(Calc=Pd/Pmax)

1050702721	Resistor	9	

2.7K_0603
TFR= 8.48086 [0.08%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 2.70 Kohms QuLev:I
Trise:25.00 Pmax:0.92590W Pd:0.00926W Pstr:1.00%(Calc=Pd/Pmax)

1050703301	Resistor	15	

100_0603
TFR= 14.1348 [0.13%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 33.00 ohms QuLev:I
Trise:25.00 Pmax:75.7576W Pd:0.75758W Pstr:1.00%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

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DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1050703311	Resistor	7	

330_0603
TFR= 6.59622 [0.06%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 330.00 ohms QuLev:I
Trise:25.00 Pmax:7.57580W Pd:0.07576W Pstr:1.00%(Calc=Pd/Pmax)

1050704711 Resistor 6

470_0603
TFR= 5.65391 [0.05%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 470.00 ohms QuLev:I
Trise:25.00 Pmax:5.31910W Pd:0.05319W Pstr:1.00%(Calc=Pd/Pmax)

1050704721 Resistor 12

4.7K_0603
TFR= 11.3078 [0.10%] FR= 0.942320 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 4.70 Kohms QuLev:I
Trise:25.00 Pmax:0.05319W Pd:0.00053W Pstr:1.00%(Calc=Pd/Pmax)

1050704731 Resistor 10

47K_0603
TFR= 9.42318 [0.08%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 47.00 Kohms QuLev:I
Trise:25.00 Pmax:0.05320W Pd:0.00053W Pstr:1.00%(Calc=Pd/Pmax)

1050705621 Resistor 2

5.6K_0603
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 5.60 Kohms QuLev:I
Trise:25.00 Pmax:0.44640W Pd:0.00446W Pstr:1.00%(Calc=Pd/Pmax)

1050706821 Resistor 1

6.8K_0603
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 6.80 Kohms QuLev:I
Trise:25.00 Pmax:0.04030W Pd:0.00040W Pstr:1.00%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1050707501	Resistor	11	

75_0603
TFR= 10.3655 [0.09%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 75.00 ohms QuLev:I
Trise:25.00 Pmax:33.3333W Pd:0.33333W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1050708201	Resistor	2	

82_0603
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 82.00 ohms QuLev:I
Trise:25.00 Pmax:30.4880W Pd:0.30488W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060701000	Resistor	24	

10X4_8P4R
TFR= 22.6156 [0.20%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 10.00 ohms QuLev:I
Trise:25.00 Pmax:250.0000W Pd:2.50000W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060701020	Resistor	2	

1KX4_8P4R
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 1.00 Kohms QuLev:I
Trise:25.00 Pmax:2.50000W Pd:0.02500W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060701030	Resistor	5	

10KX4_8P4R
TFR= 4.71159 [0.04%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 10.00 Kohms QuLev:I
Trise:25.00 Pmax:0.25000W Pd:0.00250W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060701530	Resistor	1	

45KX4_8P4R
TFR= 0.942320 [0.01%] FR= 0.942320 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 15.00 Kohms QuLev:I
Trise:25.00 Pmax:0.16667W Pd:0.00167W Pstr:1.00%(Calc=Pd/Pmax)

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1060702720	Resistor	2	

2.7KX4_8P4R
TFR= 1.88464 [0.02%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 2.70 Kohms QuLev:I
Trise:25.00 Pmax:0.92600W Pd:0.00926W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060703300	Resistor	27	

33X48P4R
TFR= 25.4426 [0.23%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 33.00 ohms QuLev:I
Trise:25.00 Pmax:75.7576W Pd:0.75758W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1060704720	Resistor	1	

4.7KX4_8P4R
TFR= 0.942318 [0.01%] FR= 0.942318 CF= 1.00000 T= 50.00C S=1.00% PIFY=4.8
MissionR= 0.999992 BasicR= 0.999992
Film 4.70 Kohms QuLev:I
Trise:25.00 Pmax:0.53192W Pd:0.00532W Pstr:1.00%(Calc=Pd/Pmax)

PartNumber	PartType	Qty	RefDes
1111610831	Capacitor	4	

1000U/6.3V DIP(SANYO)
TFR=640.8370 [5.69%] FR=160.2093 CF= 1.00000 T= 50.00C S=62.50% PIFY=2.1
MissionR= 0.998598 BasicR= 0.998598
Aluminum,AxialLead 1000.0000 uF QuLev:I
Vmax:8.00000V Vop:5.00000V Vstr:62.50%(Calc=Vop/Vmax) Trise:25.00

PartNumber	PartType	Qty	RefDes
11126107X0	Capacitor	1	

100U/10V - SMD ALUMINUM
TFR=189.8975 [1.69%] FR=189.8975 CF= 1.00000 T= 50.00C S=50.00% PIFY=2.5
MissionR= 0.998338 BasicR= 0.998338
Aluminum,ChassisMount 100.0000 uF QuLev:I
Vmax:10.0000V Vop:5.00000V Vstr:50.00%(Calc=Vop/Vmax) Trise:25.00

PartNumber	PartType	Qty	RefDes
1112610830	Capacitor	1	

1000U/10V - SMD ALUMINUM
TFR=356.0578 [3.16%] FR=356.0578 CF= 1.00000 T= 50.00C S=50.00% PIFY=2.5
MissionR= 0.996886 BasicR= 0.996886
Aluminum,ChassisMount 1000.0000 uF QuLev:I
Vmax:10.0000V Vop:5.00000V Vstr:50.00%(Calc=Vop/Vmax) Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1113622610	Capacitor	1	

22U/16V SMD - ALUMINUM
TFR=121.0840 [1.08%] FR=121.0840 CF= 1.00000 T= 50.00C S=31.25% PIFY=3.4
MissionR= 0.998940 BasicR= 0.998940
Aluminum,ChassisMount 22.0000 uF QuLev:I
Vmax:16.0000V Vop:5.00000V Vstr:31.25%(Calc=Vop/Vmax) Trise:25.00

1113622720	Capacitor	6	

220U/16V SMD - ALUMINUM
TFR=726.5040 [6.45%] FR=121.0840 CF= 1.00000 T= 50.00C S=31.25% PIFY=3.4
MissionR= 0.998940 BasicR= 0.998940
Aluminum,ChassisMount 220.0000 uF QuLev:I
Vmax:16.0000V Vop:5.00000V Vstr:31.25%(Calc=Vop/Vmax) Trise:25.00

1122710510	Capacitor	14	

1U_(1206/10V)_Y5V
TFR= 44.4802 [0.40%] FR= 3.17716 CF= 1.00000 T= 50.00C S=50.00% PIFY=3.4
MissionR= 0.999972 BasicR= 0.999972
Ceramic 1.00000 uF QuLev:I
Vmax:10.0000V Vop:5.00000V Vstr:50.00%(Calc=Vop/Vmax) Trise:25.00

1122710630	Capacitor	11	

10U_(1206/10V)_Y5V
TFR= 34.9487 [0.31%] FR= 3.17716 CF= 1.00000 T= 50.00C S=50.00% PIFY=3.4
MissionR= 0.999972 BasicR= 0.999972
Ceramic 10.0000 uF QuLev:I
Vmax:10.0000V Vop:5.00000V Vstr:50.00%(Calc=Vop/Vmax) Trise:25.00

1122747520	Capacitor	32	

4.7U_(0805_10V)_Y5V
TFR=101.6690 [0.90%] FR= 3.17716 CF= 1.00000 T= 50.00C S=50.00% PIFY=3.4
MissionR= 0.999972 BasicR= 0.999972
Ceramic 4.70000 uF QuLev:I
Vmax:10.0000V Vop:5.00000V Vstr:50.00%(Calc=Vop/Vmax) Trise:25.00

1125710410	Capacitor	126	

0.1U_(0603_25V)_Y5V)
TFR=117.0110 [1.04%] FR= 0.928659 CF= 1.00000 T= 50.00C S=20.00% PIFY=7.8
MissionR= 0.999992 BasicR= 0.999992
Ceramic 0.010000 uF QuLev:I
Vmax:25.0000V Vop:5.00000V Vstr:20.00%(Calc=Vop/Vmax) Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1125747310	Capacitor	1	

0.047UF_(0603_25V)_Y5V
TFR= 0.928659 [0.01%] FR= 0.928659 CF= 1.00000 T= 50.00C S=20.00% PIFY=7.8
MissionR= 0.999992 BasicR= 0.999992
Ceramic 0.047000 uF QuLev:I
Vmax:25.0000V Vop:5.00000V Vstr:20.00%(Calc=Vop/Vmax) Trise:25.00

1127410010	Capacitor	2	

10PF_(0603_5%_50V)_NP0
TFR= 1.23261 [0.01%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 10.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127415010	Capacitor	7	

15PF_(0603_5%_50V)_NP0
TFR= 4.31413 [0.04%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 15.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127427010	Capacitor	4	

27PF_(0603_5%_50V)_NP0
TFR= 2.46522 [0.02%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 27.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127427110	Capacitor	4	

270PF_(0603_5%_50V)_NP0
TFR= 2.46522 [0.02%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 270.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127447010	Capacitor	3	

47P_(0603_5%_50V)_NP0
TFR= 1.84891 [0.02%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 47.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1127510210	Capacitor	7	

1000PF_(0603_10%_50V)_X7R
TFR= 4.31413 [0.04%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 1000.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127510310	Capacitor	3	

0.01UF_(0603_50V)_Y5V
TFR= 1.84891 [0.02%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 0.010000 uF QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1127547110	Capacitor	8	

470PF_(0603_10%_50V)_X7R
TFR= 4.93044 [0.04%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 470.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

112X610230	Capacitor	2	

1000PF_(0603_10%_50V)_X7R
TFR= 1.23261 [0.01%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 1000.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1177510180	Capacitor	4	

100PX4_8P4C
TFR= 2.46522 [0.02%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 100.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1177547080	Capacitor	2	

47PX4_8P4C
TFR= 1.23261 [0.01%] FR= 0.616305 CF= 1.00000 T= 50.00C S=10.00% PIFY=10.2
MissionR= 0.999995 BasicR= 0.999995
Ceramic 47.0000 pf QuLev:I
Vmax:50.0000V Vop:5.00000V Vstr:10.00%(Calc=Vop/Vmax) Trise:25.00

1212203320	Inductive	1	

3.3U SMD --- POWER CHOKE
TFR= 67.7059 [0.60%] FR= 67.7059 CF= 1.00000 T= 50.00C PIFY=3.1
MissionR= 0.999407 BasicR= 0.999407
Coil,PowerFilter QuLev:I Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1213102210	Inductive	20	
F.B._(0603)			
TFR=1354.1183 [12.03%] FR= 67.7059 CF= 1.00000 T= 50.00C PIFY=3.1			
MissionR= 0.999407 BasicR= 0.999407			
Coil,PowerFilter QuLev:I Trise:25.00			
1213103000	Inductive	8	
30(100MHZ) 1A 0603 SMD			
TFR=541.6473 [4.81%] FR= 67.7059 CF= 1.00000 T= 50.00C PIFY=3.1			
MissionR= 0.999407 BasicR= 0.999407			
Coil,PowerFilter QuLev:I Trise:25.00			
1213103001	Inductive	17	
F.B._(0805)			
TFR=1151.0006 [10.22%] FR= 67.7059 CF= 1.00000 T= 50.00C PIFY=3.1			
MissionR= 0.999407 BasicR= 0.999407			
Coil,PowerFilter QuLev:I Trise:25.00			
1213103001	Inductive	17	
F.B._(0805)			
TFR=1151.0006 [10.22%] FR= 67.7059 CF= 1.00000 T= 50.00C PIFY=3.1			
MissionR= 0.999407 BasicR= 0.999407			
Coil,PowerFilter QuLev:I Trise:25.00			
14S3000300	Inductive	2	
HA003			
TFR= 28.5078 [0.25%] FR= 14.2539 CF= 1.00000 T= 50.00C PIFY=3.1			
MissionR= 0.999875 BasicR= 0.999875			
Transformer,PulseLowLevel QuLev:I Trise:25.00			
1601010400	Switch	1	
RESET_SW DIP			
TFR= 31.6720 [0.28%] FR= 31.6720 CF= 1.00000 T= 50.00C S=1.70% PIFY=3.9			
MissionR= 0.999723 BasicR= 0.999723			
Pushbutton Contacts:1 QuLev:I Trise:25.00			
Imax:0.050000A Iop:0.000850A Istr:1.70%(Calc=Iop/Imax)			
1651272100	Connector	1	
SO DIMM 144PIN SOCKET			
TFR=136.7262 [1.21%] FR=136.7262 CF= 1.00000 T= 50.00C PIFY=2.5			
MissionR= 0.998803 BasicR= 0.998803			
MultiPin Pins:144 QuLev:I Trise:25.00			

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1651503200	Connector	1	

PLCC32 SMD SOCKET
TFR= 30.3836 [0.27%] FR= 30.3836 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999734 BasicR= 0.999734
MultiPin Pins:32 QuLev:I Trise:25.00

1651X00000 Connector 1

COMPACT FLASH CONNECTOR
TFR= 47.4744 [0.42%] FR= 47.4744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999584 BasicR= 0.999584
MultiPin Pins:50 QuLev:I Trise:25.00

1652505330 Connector 1

PHONE JACK 5P 90D GRN DIP
TFR= 4.74744 [0.04%] FR= 4.74744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999958 BasicR= 0.999958
MultiPin Pins:5 QuLev:I Trise:25.00

1652505331 Connector 1

PHONE JACK 5P 90D BLU DIP
TFR= 4.74744 [0.04%] FR= 4.74744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999958 BasicR= 0.999958
MultiPin Pins:5 QuLev:I Trise:25.00

1652505332 Connector 1

PHONE JACK 5P 90D RED DIP
TFR= 4.74744 [0.04%] FR= 4.74744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999958 BasicR= 0.999958
MultiPin Pins:5 QuLev:I Trise:25.00

1652512300 Connector 1

RJ45 12PIN W/LED(Y/G)
TFR= 11.3939 [0.10%] FR= 11.3939 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999900 BasicR= 0.999900
MultiPin Pins:12 QuLev:I Trise:25.00

1653002101 Connector 1

JP2X1_2MM
TFR= 47.4744 [0.42%] FR= 47.4744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999584 BasicR= 0.999584
GeneralPurpose,Power Pins:2 QuLev:I Trise:25.00

1653003100 Connector 1

PIN HEADER 3X1 2.54MM
TFR= 2.84846 [0.03%] FR= 2.84846 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999975 BasicR= 0.999975
RibbonCable Pins:3 QuLev:I Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1653003201	Connector	1	

CON3P*2 2.0MM 180D DIP
TFR= 5.69693 [0.05%] FR= 5.69693 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999950 BasicR= 0.999950
MultiPin Pins:6 QuLev:I Trise:25.00

1653003203 Connector 1

JP3P*2, 2.0MM
TFR= 5.69693 [0.05%] FR= 5.69693 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999950 BasicR= 0.999950
RibbonCable Pins:6 QuLev:I Trise:25.00

1653005100 Connector 1

JP5*1, 2.54MM
TFR= 4.74744 [0.04%] FR= 4.74744 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999958 BasicR= 0.999958
RibbonCable Pins:5 QuLev:I Trise:25.00

1653005202 Connector 2

CON 5P*2 2.0MM 180D(M)DIP
TFR= 18.9897 [0.17%] FR= 9.49487 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999917 BasicR= 0.999917
RibbonCable Pins:10 QuLev:I Trise:25.00

1653008200 Connector 1

CON 8P*2 2.54MM 180D DIP
TFR= 15.1918 [0.13%] FR= 15.1918 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999867 BasicR= 0.999867
RibbonCable Pins:16 QuLev:I Trise:25.00

1653013202 Connector 1

CON13X2_2MM SMD
TFR= 24.6867 [0.22%] FR= 24.6867 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999784 BasicR= 0.999784
MultiPin Pins:26 QuLev:I Trise:25.00

1653017201 Connector 1

CON17X2_2MM SMD
TFR= 32.2826 [0.29%] FR= 32.2826 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999717 BasicR= 0.999717
MultiPin Pins:34 QuLev:I Trise:25.00

1653120225 Connector 1

CON20X2, PC104
TFR= 60.7672 [0.54%] FR= 60.7672 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999468 BasicR= 0.999468
CardEdge/PCB Pins:64 QuLev:I Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1653132220	Connector	1	

PCB SKT 32P*2(PC104)2.54
TFR= 60.7672 [0.54%] FR= 60.7672 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999468 BasicR= 0.999468
CardEdge/PCB Pins:64 QuLev:I Trise:25.00

1653222202	Connector	1	

BOX HEADER 22P*2 2.0MM
TFR= 41.7775 [0.37%] FR= 41.7775 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999634 BasicR= 0.999634
MultiPin Pins:44 QuLev:I Trise:25.00

1654409106	Connector	1	

D-SUB CONN 9P
TFR= 8.54539 [0.08%] FR= 8.54539 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999925 BasicR= 0.999925
MultiPin Pins:9 QuLev:I Trise:25.00

1654515305	Connector	1	

D-SUB--15PIN
TFR= 14.2423 [0.13%] FR= 14.2423 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999875 BasicR= 0.999875
MultiPin Pins:15 QuLev:I Trise:25.00

1654606302	Connector	1	

MINI DIN 6P
TFR= 2.37372 [0.02%] FR= 2.37372 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999979 BasicR= 0.999979
Coaxial,Electric Pins:6 QuLev:I Trise:25.00

1654640000	Connector	1	

HIROSE DF13-40DP-1.25V
TFR= 37.9795 [0.34%] FR= 37.9795 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999667 BasicR= 0.999667
MultiPin Pins:40 QuLev:I Trise:25.00

1654804300	Connector	2	

USB CONN 4P 90D
TFR= 7.59590 [0.07%] FR= 3.79795 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999967 BasicR= 0.999967
RibbonCable Pins:4 QuLev:I Trise:25.00

1655304020	Connector	2	

4X1, 2MM WAFER
TFR= 7.59590 [0.07%] FR= 3.79795 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999967 BasicR= 0.999967
RibbonCable Pins:4 QuLev:I Trise:25.00

RelCalc for Windows, Version 5.0-BELL6 (Release 2000.1)

Company: Evalue Technology, Inc

DOC: 3412.CIR RECORDS: 122
DESCRIPTION: Circuit Description
ENV: GB TEMP: 25.00 C CF: 1.00000 MODEL: Serial
FR= 11257.0573 FITs MTBF= 88833.1627 hrs. Parts= 647
MissionTime= 8760.0000 hrs. MissionMTBF= 88830.0786 hrs. MissionR= 0.906102 BasicR= 0.906094
BELLCORE CALCULATION METHOD: LimitedStress - Method I, Case 3 PIFY=3.0

PartNumber	PartType	Qty	RefDes
1655305020	Connector	1	

CON5X1, 2MM WAFER
TFR=118.6859 [1.05%] FR=118.6859 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.998961 BasicR= 0.998961
GeneralPurpose,Power Pins:5 QuLev:I Trise:25.00

1758200000 Connector 1

HOLDER 2PIN DIP
TFR= 1.89898 [0.02%] FR= 1.89898 CF= 1.00000 T= 50.00C PIFY=2.5
MissionR= 0.999983 BasicR= 0.999983
ICSocket Pins:2 QuLev:I Trise:25.00

1231332721 QuartzCrystal 1

32.768K 4PIN SMD
TFR= 75.0000 [0.67%] FR= 75.0000 CF= 1.00000 T= 25.00C PIFY=3.2
MissionR= 0.999343 BasicR= 0.999343
QuLev:I

1231402560 QuartzCrystal 2

25MHZ 2PIN SMD
TFR=150.0000 [1.33%] FR= 75.0000 CF= 1.00000 T= 25.00C PIFY=3.2
MissionR= 0.999343 BasicR= 0.999343
QuLev:I

1231414350 QuartzCrystal 1

14.318MHZ 2PIN SMD
TFR= 75.0000 [0.67%] FR= 75.0000 CF= 1.00000 T= 25.00C PIFY=3.2
MissionR= 0.999343 BasicR= 0.999343
QuLev:I

1752500000 Fuse 2

SMD100-2018 SMD
TFR= 60.0000 [0.53%] FR= 30.0000 CF= 1.00000 T= 25.00C PIFY=3.2
MissionR= 0.999737 BasicR= 0.999737
Rating:>30A QuLev:I

1758103010 Battery 1

PANASONIC CR2032
TFR=450.0000 [4.00%] FR=450.0000 CF= 1.00000 T= 25.00C PIFY=3.2
MissionR= 0.996066 BasicR= 0.996066
Lithium QuLev:I