

MTBF Report

<i>Product Name</i>	IB930H V-1.1
<i>IBASE P/N</i>	ZD01IB930---11030P
<i>Temperature</i>	Z+30 Celsius
<i>Environment</i>	GB, GC – Ground Benign, Controlled
<i>Place</i>	IBASE Lab
<i>Issue Date</i>	June, 25 2018
Approval By	Inspector Engineer
Alex Wang	Tim Liu

Configuration:

Item	Description	IBASE P/N
M/B	IB930H V-1.1	ZD01IB930---11030P
Test Equipment		
<i>Software</i>		Wind chill Quality Solution
<i>Calculation Model</i>		Telcordia Issue 3
<i>Temperature</i>		Z+30 Celsius
<i>Environment</i>		GB, GC – Ground Benign, Controlled

Test Result:

Failure Rate	MTBF (Hours)	Remark
570.865999	1,751,725	

Test Purpose:

To predict the life time of the product in units of failure rate and MTBF with reliable prediction methodology.

Testing Data:

Please refer to attached document below.

**Reliability Prediction
Summary**

File Name: IB930H V-1.1.rfp
System: ZD01IB930---11030P
Ref Des: IB930H V-1.1
Calculation Model: Telcordia Issue 3

Failure Rate: 570.865999
MTBF (hrs): 1,751,725
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
M/B	ZD01IB930---11030P	IB930H V-1.1	1	570.865999	1,751,725

File Name: IB930H V-1.1.rfp
Assembly: ZD01IB930---11030P
Ref Des: IB930H V-1.1
Description:

Failure Rate: 570.865999
MTBF (hrs): 1,751,725
Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
B01IB930---110000P	Connection		3.187922	1	6.075028
C01174140125001T3P	Integrated Circuit		2.475752	4	12.362403
C0117434000846000P	Integrated Circuit		2.475752	3	9.563588
C0117434001446000P	Integrated Circuit		2.475752	6	17.854874
C013662GR00012000P	Integrated Circuit		2.475752	1	3.723984
C0137308B00009000P	Integrated Circuit		2.475752	1	3.723984
C01381216AD009000P	Integrated Circuit		2.475752	1	3.723984
C01382801GBM10000P	Integrated Circuit		2.475752	1	3.723984
C01382945GME24000P	Integrated Circuit		2.475752	1	3.723984
C01383627EHG09000P	Integrated Circuit		2.475752	1	3.723984
C0138888G00010000P	Integrated Circuit		2.475752	1	3.723984
C01388E8053029000P	Integrated Circuit		2.475752	1	3.723984
C014485EEN0002000P	Integrated Circuit		2.475752	2	6.703640
C0147523200007000P	Integrated Circuit		2.475752	4	12.362403
C0147SZ0800003000P	Integrated Circuit		2.475752	2	6.703640
C0172305000002000P	Integrated Circuit		2.475752	2	6.703640
C0179543100007000P	Integrated Circuit		2.475752	1	3.723984
C01S6262000029000P	Integrated Circuit		2.475752	1	3.723984
C01S6506000002100P	Integrated Circuit		2.475752	1	3.723984
C01S6537ACRE29000P	Integrated Circuit		2.475752	1	3.723984
C01SHIP6612002000P	Integrated Circuit		2.475752	1	3.723984
C01SISL6520A02000P	Integrated Circuit		2.475752	1	3.723984
C04G24C0801800200P	Integrated Circuit		5.531639	1	8.586431
C04L49FL004T080P4P	Integrated Circuit		5.531639	1	8.586431
C0639002012000000	Inductor		0.091560	5	0.505506
C101F327680000000P	Miscellaneous		1.961798	1	4.285181
C101H143183002000P	Miscellaneous		1.961798	2	11.540139
C101H250003002000P	Miscellaneous		1.961798	1	4.285181
C21120311N5817000P	Semiconductor		0.252140	5	1.783180
C21121811N41481D4P	Semiconductor		0.252140	18	5.516383
C2142051BAT540000P	Semiconductor		0.252140	4	1.477002
C2142051BAT54A000P	Semiconductor		0.252140	1	0.487065
C2142051BAT54C000P	Semiconductor		0.252140	1	0.487065
C2142051BAT54S1P2P	Semiconductor		0.252140	5	1.783180
C2142111RB751V000	Semiconductor		0.252140	1	0.487065
C2222022512025000P	Inductor		2.497097	1	3.492318
C2222032610015000P	Inductor		2.497097	2	6.390890
C2232222456A360C6P	Inductor		2.497097	2	6.390890
C2232222522A120C6P	Inductor		2.497097	1	3.492318
C2232372533A060C6P	Inductor		2.497097	2	6.390890
C2306070110000200P	Miscellaneous		0.400000	5	2.560121
C2306070260000200P	Miscellaneous		0.400000	1	0.654555
C252N2222A0213000P	Semiconductor		1.352386	2	4.178173
C252N390400213000	Semiconductor		1.352386	5	9.069196
C252N7002002130P2P	Semiconductor		1.352386	8	13.722655
C25B772SS00213100P	Semiconductor		1.352386	2	4.178173

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Temperature: 30
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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
C25FDV301N0213000P	Semiconductor		1.352386	2	4.178173
C27211301203202S8P	Miscellaneous		51.000000	1	99.107065
C2820312S02078000P	Semiconductor		8.404658	2	22.385340
C282638APZ2116000P	Semiconductor		8.404658	1	12.377660
C2827811002078000P	Semiconductor		8.404658	3	32.013127
C2828113002070000P	Semiconductor		8.404658	8	78.239383
C282SI99332078000P	Semiconductor		8.404658	2	22.385340
C3120200470200000P	Inductor		0.091560	6	0.601620
C3120200603000000P	Inductor		0.091560	20	1.926615
C3120201202000000P	Inductor		0.091560	17	1.644488
C3120301201000000P	Inductor		0.091560	1	0.113437
C3120400804000000P	Inductor		0.091560	1	0.113437
C3323930000008000P	Integrated Circuit		2.790539	1	5.426822
C332613225GB03100P	Integrated Circuit		2.790539	1	5.426822
C33269T1000001000P	Integrated Circuit		2.790539	2	9.320923
C33278L0500007100P	Integrated Circuit		2.790539	1	5.426822
C33280944SAG02000P	Integrated Circuit		2.790539	1	5.426822
C36221222610100Y4	Resistor		0.066589	1	0.088615
C36221224910100Y4	Resistor		0.066589	5	0.381454
C36221227410100Y4	Resistor		0.066589	2	0.164100
C36221249910100Y4	Resistor		0.066589	8	0.593057
C36221251010100Y4	Resistor		0.066589	24	1.702659
C36221254910100Y4	Resistor		0.066589	9	0.663306
C36221275010100Y4	Resistor		0.066589	2	0.164100
C36221280610100Y4	Resistor		0.066589	2	0.164100
C36221310010100Y4	Resistor		0.066589	5	0.381454
C36221315010100Y4	Resistor		0.066589	6	0.452604
C36221320010100Y4	Resistor		0.066589	1	0.088615
C36221322110100Y4	Resistor		0.066589	2	0.164100
C36221325510100Y4	Resistor		0.066589	1	0.088615
C36221347510100Y4	Resistor		0.066589	1	0.088615
C36221410010100Y4	Resistor		0.066589	1	0.088615
C36221420010100Y4	Resistor		0.066589	1	0.088615
C36221426110100Y4	Resistor		0.066589	1	0.088615
C36221432410100Y4	Resistor		0.066589	1	0.088615
C36221436510100Y4	Resistor		0.066589	2	0.164100
C36221444210100Y4	Resistor		0.066589	1	0.088615
C36221447510100Y4	Resistor		0.066589	1	0.088615
C36221448710100Y4	Resistor		0.066589	1	0.088615
C36221449910100Y4	Resistor		0.066589	1	0.088615
C36221456210100Y4	Resistor		0.066589	1	0.088615
C36221510010100Y4	Resistor		0.066589	7	0.522570
C36221517810100Y4	Resistor		0.066589	1	0.088615
C36221522010100Y4	Resistor		0.066589	1	0.088615
C36221556010100Y4	Resistor		0.066589	1	0.088615
C36221614710100Y4	Resistor		0.066589	1	0.088615

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Assembly: ZD01IB930---11030P
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Temperature: 30
Environment: GB, GC - Ground Benign, Controlled

Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
C36221633210100Y4	Resistor		0.066589	1	0.088615
C36421000020800Y4	Resistor		0.066589	40	2.798500
C36421110020800Y4	Resistor		0.066589	2	0.164100
C36421122020800Y4	Resistor		0.066589	5	0.381454
C36421147020800Y4	Resistor		0.066589	2	0.164100
C36421210020800Y4	Resistor		0.066589	11	0.803240
C36421222020800Y4	Resistor		0.066589	12	0.872975
C36421233020800Y4	Resistor		0.066589	24	1.702659
C36421239020800Y4	Resistor		0.066589	4	0.309817
C36421256020800Y4	Resistor		0.066589	4	0.309817
C36421275020800Y4	Resistor		0.066589	4	0.309817
C36421310020800Y4	Resistor		0.066589	12	0.872975
C36421315020800Y4	Resistor		0.066589	9	0.663306
C36421322020800Y4	Resistor		0.066589	1	0.088615
C36421333020800Y4	Resistor		0.066589	3	0.237496
C36421347020800Y4	Resistor		0.066589	3	0.237496
C36421351020800Y4	Resistor		0.066589	2	0.164100
C36421410020800Y4	Resistor		0.066589	28	1.977390
C36421411020800Y4	Resistor		0.066589	1	0.088615
C36421415020800Y4	Resistor		0.066589	2	0.164100
C36421418020800Y4	Resistor		0.066589	1	0.088615
C36421420020800Y4	Resistor		0.066589	3	0.237496
C36421422020800Y4	Resistor		0.066589	9	0.663306
C36421427020800Y4	Resistor		0.066589	2	0.164100
C36421430020800Y4	Resistor		0.066589	1	0.088615
C36421433020800Y4	Resistor		0.066589	2	0.164100
C36421439020800Y4	Resistor		0.066589	1	0.088615
C36421447020800Y4	Resistor		0.066589	49	3.412214
C36421456020800Y4	Resistor		0.066589	2	0.164100
C36421482020800Y4	Resistor		0.066589	17	1.219981
C36421510020800Y4	Resistor		0.066589	58	4.024654
C36421511020800Y4	Resistor		0.066589	1	0.088615
C36421515020800Y4	Resistor		0.066589	1	0.088615
C36421520020800Y4	Resistor		0.066589	4	0.309817
C36421522020800Y4	Resistor		0.066589	7	0.522570
C36421527020800Y4	Resistor		0.066589	3	0.237496
C36421530020800Y4	Resistor		0.066589	1	0.088615
C36421547020800Y4	Resistor		0.066589	1	0.088615
C36421551020800Y4	Resistor		0.066589	2	0.164100
C36421575020800Y4	Resistor		0.066589	1	0.088615
C36421610020800Y4	Resistor		0.066589	3	0.237496
C36421615020800Y4	Resistor		0.066589	3	0.237496
C36421620020800Y4	Resistor		0.066589	1	0.088615
C36421627020800Y4	Resistor		0.066589	3	0.237496
C36421710020800Y4	Resistor		0.066589	2	0.164100
C36421720020800Y4	Resistor		0.066589	1	0.088615

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Assembly: ZD01IB930---11030P
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Description:

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
C36421810020800Y4	Resistor		0.066589	1	0.088615
C36422000020800Y4	Resistor		0.066589	2	0.164100
C36422111020800Y4	Resistor		0.066589	1	0.088615
C36422147020800Y4	Resistor		0.066589	4	0.309817
C36422410020800Y4	Resistor		0.066589	5	0.381454
C36422447020800Y4	Resistor		0.066589	1	0.088615
C36422510020800Y4	Resistor		0.066589	1	0.088615
C36422520020800Y4	Resistor		0.066589	2	0.164100
C36422647020800Y4	Resistor		0.066589	1	0.088615
C36423000030800Y4	Resistor		0.066589	1	0.088615
C36423122030800Y4	Resistor		0.066589	6	0.452604
C36423210030800Y4	Resistor		0.066589	1	0.088615
C36423247030800Y4	Resistor		0.066589	1	0.088615
C36522510020400TJP	Resistor		1.287430	3	5.992014
C37212110328410Y4	Resistor		0.456210	2	1.467806
C37212127228410Y4	Resistor		0.456210	6	3.688774
C37212147228410Y4	Resistor		0.456210	2	1.467806
C37222500028230Y4	Resistor		0.456210	1	0.848998
C37222510028210Y4	Resistor		0.456210	1	0.848998
C37222510228230Y4	Resistor		0.456210	1	0.848998
C37222522028230Y4	Resistor		0.456210	4	2.605264
C37222527228230Y4	Resistor		0.456210	6	3.688774
C37222533028210Y4	Resistor		0.456210	8	4.744895
C37222533028230Y4	Resistor		0.456210	1	0.848998
C37222547228230Y4	Resistor		0.456210	2	1.467806
C37222556028230Y4	Resistor		0.456210	14	7.827404
C37222568128230Y4	Resistor		0.456210	2	1.467806
C3812100401100000	Capacitor		0.094067	18	1.744355
C3812101501100000	Capacitor		0.094067	7	0.690365
C3812102501100000	Capacitor		0.094067	14	1.362047
C3812103501100000	Capacitor		0.094067	12	1.170566
C38121045020600Y4	Capacitor		0.094067	4	0.400379
C3812104701050000	Capacitor		0.094067	232	22.007201
C3812104901060200P	Capacitor		0.094067	20	1.935256
C3812105501030000P	Capacitor		0.094067	39	3.743904
C38121055020600A7	Capacitor		0.094067	9	0.882770
C38121065030300A7	Capacitor		0.094067	50	4.788601
C3812106703060000	Capacitor		0.094067	32	3.078344
C3812120401100000	Capacitor		0.094067	3	0.303082
C3812153501100000P	Capacitor		0.094067	1	0.106122
C3812180401100000	Capacitor		0.094067	2	0.205183
C3812181501100000	Capacitor		0.094067	2	0.205183
C3812220401100000	Capacitor		0.094067	7	0.690365
C3812223501060000P	Capacitor		0.094067	8	0.786635
C3812224501050100P	Capacitor		0.094067	8	0.786635
C3812225502050000	Capacitor		0.094067	7	0.690365

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Part Number	Category	Ref Des	Unit Failure Rate	Quantity	Total Failure Rate
C3812226703030200P	Capacitor		0.094067	5	0.497292
C3812330401100000	Capacitor		0.094067	3	0.303082
C3812332501100000	Capacitor		0.094067	1	0.106122
C38123335010600W2P	Capacitor		0.094067	1	0.106122
C3812334501050000P	Capacitor		0.094067	1	0.106122
C3812392501100000	Capacitor		0.094067	8	0.786635
C3812470401100000	Capacitor		0.094067	2	0.205183
C3812471501100000	Capacitor		0.094067	2	0.205183
C3812471502100100P	Capacitor		0.094067	2	0.205183
C3812472501100000	Capacitor		0.094067	1	0.106122
C3812474501050000P	Capacitor		0.094067	9	0.882770
C3812475503050000	Capacitor		0.094067	12	1.170566
C3812475902030100P	Capacitor		0.094067	7	0.690365
C38221877050600N2P	Capacitor		0.790747	1	1.043865
C38A210770D030100P	Capacitor		0.790747	1	1.043865
C38A222770D030000P	Capacitor		0.790747	4	3.662532
C38B22277D3030L00	Capacitor		0.790747	3	2.805878
C38B23377D21500S1P	Capacitor		0.790747	1	1.043865
C38B23377D4030000	Capacitor		0.790747	1	1.043865
C38B24777D20300S1	Capacitor		0.790747	3	2.805878
C38E22277D0170100P	Capacitor		0.790747	11	9.511939
C38E23377D0170300P	Capacitor		0.790747	8	7.019920
C39121814043090W2P	Capacitor		0.382888	15	6.280403
C39124704043090W2	Capacitor		0.382888	1	0.526451
C4011100800350000P	Inductor		0.091560	1	0.113437