



OFT-10W03

Reliability Prediction Report

(MTBF)

MTBF Number : EMTBF-OFT10W03
Release Date : 2021/02/20

Initiated by	Max Chen	Job Title	Supervisor	Originate Date	2021/02/20
Approved by	Simon Lin	Job Title	Senior Manager	Revision	QD4-069 Rev.A2

Reliability Prediction(MTBF)

I. Model Name : OFT-10W03

Description :

- Cherry Trail Z8350 Intel Atom 1.44GHz, 2GB DDR3L Up to 4GB DDR3L, 32GB eMMC Up to 64GB eMMC, 2x USB Type A (2.0 x1, 3.0 x1), 1x HDMI, 1x Head phone jack, 1 x 10/100 Ethernet, M.2 B-Key(3042) connector socket, 1 x 802.11 b/g/n/ac Wireless LAN and Bluetooth 5.0, 10.1” TFT-LCD, WXGA, 1280 x 800, Touch Controller, AT/ATX, DC jack_input 12V~24V.

II. Predication Date : 2021/02/20

III. Prediction Site : Avalue Technology Software – DQV Dept.

IV. Predicted by : Max Chen

V. Simulation Environment :

— Temperature : 30°C

— Standard : Telcordia Issue 4

VI. Prediction Result :

— Failure Rate : See next pages

— MTBF : See next pages

Assembly Name	Part Number	Model	Method	Environment	Mission Time	Qty	Failure Rate	MTBF
OFT-10W03		Telcordia Issue 4	Method 1	GB,GC-Ground Benige, Controlled	8760hrs	1	20518.041468 Fits	48737.6 Hrs

OFT-10W03



Name	OFT-10W03	Failure Rate	20518.041468
Description		Failure Rate, Percentage	100.00
Reference Designator		MTBF	48737.60
Quantity		Calculation Model	Telcordia Issue 4

There is no data to report on.

OFT-10W03

Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1181656721 H	Capacitor	Ceramic		C87	FP/RE 560uF 6.3V 20% 6.3x8x2.5x3. 1 DIP	1		0.106306	
☐	E1601010400 R	Switch			SRST1	TACT Switch 4P 90D BLK L=3.15/H=8.6 DIP	1		0.000000	
☐	E1613310000 R	Connection	IC Socket		JAT1,JCMOS1	PH 3Px1 2.0mm 180D (M) BLK DIP Pinrex	2		2.829906	
☐	E1613510000 R	Connection	IC Socket		JMCU1	PH 5Px1 2.0mm 180D (M) BLK DIP Pinrex	1		1.598488	
☐	E1614310000 R	Connection	IC Socket		JBLP1	PH 3Px1 2.54mm 180D(M) BLK DIP Pinrex	1		1.598488	
☐	E165250530 AR	Connection	IC Socket		JHP1	Audio-HD 5P 90D(F) 3.5 GRN DIP EP- F01R0C	1		1.598488	
☐	E1653302121 R	Connection	IC Socket		JBLP1(1-2)	M-Jx1 2.54mm YEL Open CATCH 1132-040-02	1		1.598488	

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☐	E1653302123 R	Connection	IC Socket		JAT1(1-2),JCMOS1(1-2)	M-Jx1 2.0mm BLK Close CATCH 1133-001-02	2		2.829906	
☐	E1660210201 H	Connection	IC Socket		JPB1	Wafer 2P B-W 1.25 180D (M) WHT DIP Pinrex	1		1.598488	
☐	E1662221200 R	Connection	IC Socket		JPWR2	Wafer 2Px2 B-W 2.0 90D (M) NAT DIP Pinrex	1		1.598488	
☐	E1662310201 H	Connection	IC Socket		JCOM1	Wafer 3P B-W 2.0 180D (M) WHT DIP Pinrex	1		1.598488	
☐	E1662411200 H	Connection	IC Socket		JSPK1	Wafer 4P B-W 2.0 90D (M) NAT DIP CKM	1		1.598488	
☐	E1662510201 H	Connection	IC Socket		JBL1	Wafer 5P B-W 2.0 180D (M) WHT DIP Pinrex	1		1.598488	
☐	E1662511201 H	Connection	IC Socket		JCOM2,JTP2	Wafer 5P B-W 2.0 90D (M) NAT DIP CKM	2		2.829906	

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☐	E1662521200R	Connection	IC Socket		JCAM1,JCOM3,JSEN1	Wafer 5Px2 B-W 2.0 90D (M) NAT DIP Pinrex	3		4.001146	
☐	E1662611200H	Connection	IC Socket		JTP1	Wafer 6P B-W 2.0 90D (M) NAT DIP CKM	1		1.598488	
☐	E1662621201R	Connection	IC Socket		JTK1	Wafer 6Px2 B-W 2.0 90D (M) NAT DIP Pinrex	1		1.598488	
☐	E16D1400302R	Connection	IC Socket		JUSB2	USB-A 4P 90D(F) WHT DIP JKCR	1		1.598488	
☐	E16D5900301R	Connection	IC Socket		JUSB1	USB3.0-A 9P 90D(F) BLU DIP Winwin	1		1.598488	
☐	E16G212230OR	Connection	IC Socket		JLAN1	RJ45-I 12P 90D UP LED (Y/GO) Xfmr DIP UDE	1		1.598488	
☐	E16H336110OR	Connection	General Purpose, Power		JPWR1	DC-J 3P 90D (M) 2.5mm BLK DIP JKCR	1		37.363353	
☐	E10187005CXH-P1	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R231	LPR 0.005 2W@70C 5% 2512 WHT SMD PDC	1		0.088615	Type: Film (Carbon, Oxide, Metal)

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☐	E102X501032 H	Resistor	Thermistor		RT1	THR 10K 1% 0603 SMD SEMITEC 103KT1608- 1P	1		2.515815	
☐	E1050501010 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R91,R157	CR 100 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050501030 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R284,R328	CR 10K 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050501050 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R321,R322	CR 1M 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050501230 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R223,R460	CR 12K 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050501240 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R153	CR 120K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050501530 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R150,R285	CR 15K 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)

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☐	E1050501840 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R57	CR 180K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050502020 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R393	CR 2K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050502030 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R212,R215	CR 20K 1/16W 1% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050502410 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R117,R178,R 293,R355	CR 240 1/16W 1% 0402 SMD (HF)	4		0.309817	Type: Film (Carbon, Oxide, Metal)
☐	E1050502430 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R109	CR 24K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050503020 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R217	CR 3K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050504720 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R121,R126,R 381,R382	CR 4.7K 1/16W 1% 0402 SMD (HF)	4		0.309817	Type: Film (Carbon, Oxide, Metal)
☐	E1050506810 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R399,R400,R 401,R402,R4 03,R404,R40 5,R406	CR 680 1/16W 1% 0402 SMD (HF)	8		0.593057	Type: Film (Carbon, Oxide, Metal)

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☐	E1050507530 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R334	CR 75K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050510220 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R146	CR 10.2K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050510530 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R287	CR 105K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050511300 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R127	CR 113 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050512120 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R286,R412,R 418	CR 12.1K 1/16W 1% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)
☐	E1050512420 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R471	CR 12.4K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050518200 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R87	CR 182 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)

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☐	E1050524910 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R106	CR 2.49K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050530100 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R351	CR 301 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050540200 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R118,R139,R 152,R346	CR 402 1/16W 1% 0402 SMD (HF)	4		0.309817	Type: Film (Carbon, Oxide, Metal)
☐	E10505499A 0H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R108,R469,R 470,R472,R4 73	CR 49.9 1/16W 1% 0402 SMD (HF)	5		0.381454	Type: Film (Carbon, Oxide, Metal)
☐	E1050560410 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R395	CR 6.04K 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E10505806A 0H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R95	CR 80.6 1/16W 1% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)

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☐	E1050700000 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R12,R18,R38, R114,R136,R 137,R141,R1 42,R160,R18 5,R188,R190, R191,R193,R 195,R196,R1 97,R201,R26 0,R292,R298, R301,R305,R 307,R313,R3 36,R353,R35 7,R376,R410, R417,R451,R 452,R455,R4 64,R475	CR 0 1/16W 5% 0402 SMD (HF)	36		2.525219	Type: Film (Carbon, Oxide, Metal)
☐	E1050701000 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R72,R82,R30 6,R476	CR 10 1/16W 5% 0402 SMD (HF)	4		0.309817	Type: Film (Carbon, Oxide, Metal)
☐	E1050701010 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R347,R348,R 350	CR 100 1/16W 5% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)

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☐	E1050701020 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R43,R63,R107,R143,R145,R159,R164,R181,R182,R199,R206,R235,R243,R249,R304,R356,R362,R365,R430,R434,R441,R442,R443,R457	CR 1K 1/16W 5% 0402 SMD (HF)	24		1.702659	Type: Film (Carbon, Oxide, Metal)

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☐	E1050701030 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R1,R11,R21,R62,R74,R111,R113,R124,R129,R134,R147,R151,R158,R163,R167,R168,R169,R170,R186,R202,R203,R205,R211,R221,R224,R226,R227,R228,R244,R245,R248,R250,R259,R262,R266,R268,R269,R270,R299,R300,R303,R325,R330,R339,R341,R343,R349,R359,R361,R364,R389,R390,R407,R423,R424,R426,R431,R436,R438,R447,R450,R453,R454,R456,R458,R459,R461,R463,R466,R467,R468	CR 10K 1/16W 5% 0402 SMD (HF)	71		4.907603	Type: Film (Carbon, Oxide, Metal)

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☐	E1050701040 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R31,R64,R102,R115,R130,R242,R267,R291,R332,R342,R344,R444,R445,R446	CR 100K 1/16W 5% 0402 SMD (HF)	14		1.012075	Type: Film (Carbon, Oxide, Metal)
☐	E1050701050 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R415	CR 1M 1/16W 5% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050701060 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R110,R462	CR 10M 1/16W 5% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050702030 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R88,R140,R175,R179,R180,R366,R368,R369,R413	CR 20K 1/16W 5% 0402 SMD (HF)	9		0.663306	Type: Film (Carbon, Oxide, Metal)
☐	E1050702040 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R93,R116,R220	CR 200K 1/16W 5% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)
☐	E1050702200 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R58,R61,R71,R75,R77,R83,R138,R240,R241,R296,R297,R309,R310,R408,R409,R437	CR 22 1/16W 5% 0402 SMD (HF)	16		1.150766	Type: Film (Carbon, Oxide, Metal)

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☐	E1050702220 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R25,R34,R41, R46,R60,R70, R78,R79,R80, R81,R89,R90, R120,R122,R 204,R210,R2 14,R229,R23 0,R308,R315, R316,R317,R 425,R427,R4 28,R429	CR 2.2K 1/16W 5% 0402 SMD (HF)	27		1.908766	Type: Film (Carbon, Oxide, Metal)
☐	E1050703300 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R192,R236,R 237,R302	CR 33 1/16W 5% 0402 SMD (HF)	4		0.309817	Type: Film (Carbon, Oxide, Metal)
☐	E1050703310 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R8,R477,R47 8	CR 330 1/16W 5% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)
☐	E1050703320 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R22,R24,R36	CR 3.3K 1/16W 5% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)
☐	E1050704700 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R209	CR 47 1/16W 5% 0402 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1050704710 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R246,R247,R 255,R256,R3 72,R373	CR 470 1/16W 5% 0402 SMD (HF)	6		0.452604	Type: Film (Carbon, Oxide, Metal)

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☐	E1050704720 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R420,R422,R439	CR 4.7K 1/16W 5% 0402 SMD (HF)	3		0.237496	Type: Film (Carbon, Oxide, Metal)
☐	E10507047A OH	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R320,R323	CR 4.7 1/16W 5% 0402 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1050705100 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R172,R360,R363,R367,R371	CR 51 1/16W 5% 0402 SMD (HF)	5		0.381454	Type: Film (Carbon, Oxide, Metal)
☐	E1051501211 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R257	CR 120 1/10W 1% 0603 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1051531621 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R282	CR 31.6K 1/10W 1% 0603 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1051700001 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R225,R396	CR 0 1/10W 5% 0603 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1051701021 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R218	CR 1K 1/10W 5% 0603 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1051702711 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R397,R398	CR 270 1/10W 5% 0603 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)

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☐	E1051703311 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R123,R135	CR 330 1/10W 5% 0603 SMD (HF)	2		0.164100	Type: Film (Carbon, Oxide, Metal)
☐	E1051707531 H	Resistor	Fixed	Film (Carbon, Oxide, Metal)	R394	CR 75K 1/10W 5% 0603 SMD (HF)	1		0.088615	Type: Film (Carbon, Oxide, Metal)
☐	E1060700002 H	Resistor	Network		RN8	NETR 0 1/16W 5% 4P2R 0402X2 SMD (HF)	1		0.169800	
☐	E1060701031 H	Resistor	Network		RN6,RN7,RN9	NETR 10K 1/16W 5% 8P4R 0402X4 SMD (HF)	3		0.409306	
☐	E1121610600 H	Capacitor	Ceramic		C4,C5,C28,C96,C97,C119,C120,C142,C145,C154,C186,C213,C219,C222,C226,C229,C233,C245,C280,C284,C300,C319,C321,C334,C337,C339,C340,C367,C384,C412,C413,C414	MLCC 10uF 6.3V 20% X5R 0402 SMD (HF)	32		3.078344	

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1121610610 H	Capacitor	Ceramic		C395,C396,C403,C405	MLCC 10uF 6.3V 20% X5R 0603 SMD (HF)	4		0.400379	
☐	E1121622500 H	Capacitor	Ceramic		C144,C166,C170,C171,C172,C175,C239,C380	MLCC 2.2uF 6.3V 20% X5R 0402 SMD (HF)	8		0.786635	
☐	E1121622610 H	Capacitor	Ceramic		C261,C289,C290,C291,C292,C294,C299,C302,C312,C316,C325,C351,C352,C353,C354,C358,C359,C360	MLCC 22uF 6.3V 20% X5R 0603 SMD (HF)	18		1.744355	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1121647500 H	Capacitor	Ceramic		C67,C73,C75, C79,C81,C82, C83,C84,C86, C90,C92,C10 9,C156,C164, C167,C174,C 184,C265,C2 69,C275,C30 5,C309,C317, C322,C323,C 324,C328,C3 31,C335,C33 8,C349,C350, C372,C387,C 417,C422,C4 28	MLCC 4.7uF 6.3V 20% X5R 0402 SMD (HF)	37		3.553814	
☐	E1121647620 H	Capacitor	Ceramic		C61,C62,C13 0,C131,C196, C197,C199,C 200,C210,C2 11,C379	MLCC 47uF 6.3V 20% X5R 0805 SMD (HF)	11		1.074721	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
□	E1122510500	Capacitor	Ceramic		C2,C7,C15,C3	MLCC 1uF	48		4.598745	
	H				5,C38,C39,C7	10V 10% X5R				
					2,C78,C89,C9	0402 SMD				
					1,C93,C99,C1	(HF)				
					10,C111,C11					
					3,C114,C115,					
					C139,C206,C					
					274,C277,C3					
					01,C303,C30					
					4,C307,C310,					
					C311,C313,C					
					315,C320,C3					
					26,C327,C32					
					9,C330,C332,					
					C333,C336,C					
					341,C342,C3					
					43,C345,C34					
					7,C348,C357,					
					C363,C371,C					
					373,C431					

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
□	E1123510400 H	Capacitor	Ceramic		C1,C3,C9,C12	MLCC 100nF	129		12.271585	
					,C13,C16,C17	16V 10% X7R				
					,C18,C20,C21	0402 SMD				
					,C24,C26,C27	(HF)				
					,C29,C31,C36					
					,C37,C49,C53					
					,C60,C71,C74					
					,C76,C77,C80					
					,C94,C95,C10					
					0,C101,C102,					
					C103,C106,C					
					112,C121,C1					
					22,C132,C14					
					3,C146,C147,					
					C148,C155,C					
					157,C162,C1					
					63,C169,C18					
					2,C183,C185,					
					C187,C188,C					
					189,C190,C1					
					91,C192,C19					
					3,C194,C195,					
					C201,C204,C					
					214,C216,C2					
					17,C218,C22					
					1,C223,C230,					
					C235,C236,C					
					237,C238,C2					
					40,C241,C24					
					3,C244,C247,					
					C248,C252,C					

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPCODR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
					253,C256,C257,C258,C262,C264,C266,C272,C276,C278,C281,C283,C285,C287,C288,C296,C306,C308,C318,C344,C346,C370,C381,C382,C385,C386,C397,C399,C400,C401,C402,C404,C406,C407,C408,C409,C415,C416,C418,C419,C420,C421,C423,C424,C425,C426,C429,C433,C439,C440,C441,C442					

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1123510620 H	Capacitor	Ceramic		C242,C273	MLCC 10uF 16V 10% X5R 0805 SMD (HF)	2		0.205183	
☐	E1123522400 H	Capacitor	Ceramic		C104	MLCC 220nF 16V 10% X5R 0402 SMD (HF)	1		0.106306	
☐	E1123522510 H	Capacitor	Ceramic		C173	MLCC 2.2uF 16V 10% X5R 0603 SMD (HF)	1		0.106306	
☐	E1125510300 H	Capacitor	Ceramic		C70,C108,C388,C430	MLCC 10nF 25V 10% X7R 0402 SMD (HF)	4		0.400379	
☐	E1125547300 H	Capacitor	Ceramic		C48	MLCC 47nF 25V 10% X7R 0402 SMD (HF)	1		0.106306	
☐	E1127410100 H	Capacitor	Ceramic		C33,C40,C41,C45,C50,C55,C57,C231,C232	MLCC 100pF 50V 5% NPO 0402 SMD (HF)	9		0.882770	
☐	E1127415000 H	Capacitor	Ceramic		C394,C398,C427,C432	MLCC 15pF 50V 5% NPO 0402 SMD (HF)	4		0.400379	

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Description	E9697ACPCODR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1127418000 H	Capacitor	Ceramic		C66,C68	MLCC 18pF 50V 5% NPO 0402 SMD (HF)	2		0.205183	
☐	E1127422100 H	Capacitor	Ceramic		C133,C149,C 202,C203,C4 34,C435,C43 6,C437	MLCC 220pF 50V 5% NPO 0402 SMD (HF)	8		0.786635	
☐	E1127510200 H	Capacitor	Ceramic		C168,C227,C 234	MLCC 1000pF 50V 10% X7R 0402 SMD (HF)	3		0.303082	
☐	E1127510410 H	Capacitor	Ceramic		C63,C118,C2 98,C366,C39 2	MLCC 100nF 50V 10% X7R 0603 SMD (HF)	5		0.497292	
☐	E1127510620 H	Capacitor	Ceramic		C117,C297,C 374,C389,C4 10,C411	MLCC 10uF 50V 10% X5R 0805 SMD (HF)	6		0.593932	
☐	E1127515210 H	Capacitor	Ceramic		C393	MLCC 1500pF 50V 10% X7R 0603 SMD (HF)	1		0.106306	
☐	E1127522310 H	Capacitor	Ceramic		C438	MLCC 22nF 50V 10% X7R 0603 SMD (HF)	1		0.106306	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1127533200H	Capacitor	Ceramic		C293	MLCC 3300pF 50V 10% X7R 0402 SMD (HF)	1		0.106306	
☐	E1127840A00H	Capacitor	Ceramic		C56,C59	MLCC 4pF 50V +/- 0.25pF NPO 0402 SMD (HF)	2		0.205183	
☐	E112X510230H	Capacitor	Ceramic		C207	MLCC 1000pF 2KV 10% X7R 1206 SMD	1		0.106306	
☐	E1177510100H	Capacitor	Ceramic		C138,C270,C295,C377	NETC 100pF 50V 10% NPO 8P4C 0402X4 SMD	4		0.400379	
☐	E1186622620H	Capacitor	Ceramic		C44	OC/SVPF 22uF 35V 20% 6.3x7.3xH5.9 SMD	1		0.106306	
☐	E1211201521H	Inductor	Coil	Radio Frequency, Fixed	L8,L10,L11	Inductor 1.5uH 2.6A 20% 1210 SMD TOKO	3		0.312220	Type: Radio Frequency, Fixed
☐	E1211206810H	Inductor	Coil	Radio Frequency, Fixed	L6	Inductor 680nH 3.5A 20% 1210 SMD TOKO	1		0.113437	Type: Radio Frequency, Fixed

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPCODR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E121220102P H	Inductor	Coil	Radio Frequency, Fixed	L9	Coil 1.0uH 6.2A 20% 4012 SMD TOKO	1		0.113437	Type: Radio Frequency, Fixed
☐	E121220222 BH	Inductor	Coil	Radio Frequency, Fixed	L7,L12	Coil 2.2uH 14A 20% 6030 SMD CYNTEC	2		0.213865	Type: Radio Frequency, Fixed
☐	E121220222 DH	Inductor	Coil	Radio Frequency, Fixed	L3	Coil 2.2uH 6.0A 20% 4020 SMD TAI-TECH	1		0.113437	Type: Radio Frequency, Fixed
☐	E1212204717 H	Inductor	Coil	Radio Frequency, Fixed	L4,L5	Coil 470nH 5.3A 20% 2520 SMD Darfon	2		0.213865	Type: Radio Frequency, Fixed
☐	E1213009004 H	Inductor	Coil	Radio Frequency, Fixed	B23,B24,B25, B26	BEAD 90 (100MHz) 100mA 4P 03025 SMD muRata	4		0.408910	Type: Radio Frequency, Fixed
☐	E1213009005 H	Inductor	Coil	Radio Frequency, Fixed	B3,B9,B14,B1 5,B17,B18,B3 7	BEAD 90 (100MHz) 100mA 4P 0504 SMD INPAQ	7		0.697367	Type: Radio Frequency, Fixed
☐	E1213101216 H	Inductor	Coil	Radio Frequency, Fixed	B12	BEAD 120 (100MHz) 550mA 0402 SMD muRata	1		0.113437	Type: Radio Frequency, Fixed

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1213101217 H	Inductor	Coil	Radio Frequency, Fixed	B8,B10,B40,B45	BEAD 120 (100MHz) 5.0A 0805 SMD TAI-TECH	4		0.408910	Type: Radio Frequency, Fixed
☐	E1213103001 H	Inductor	Coil	Radio Frequency, Fixed	B42	BEAD 30 (100MHz) 4.0A 0805 SMD muRata	1		0.113437	Type: Radio Frequency, Fixed
☐	E1213103004 H	Inductor	Coil	Radio Frequency, Fixed	B1,B2,B4,B5, B11,B13,B16, B19,B20,B21, B22,B27,B28, B29,B30,B31, B33,B34,B35, B36,B41,B43, B46,B47,B48, B49,B50	BEAD 30 (100MHz) 1.7A 0402 SMD CHILISIN	27		2.582983	Type: Radio Frequency, Fixed
☐	E1231301260 H	Miscellaneous	Quartz Crystal		Y5	X'TAL 12.000MHz 10/20 4P (2520) SMD TXC	1		3.132758	
☐	E123130256 AH	Miscellaneous	Quartz Crystal		Y6	X'TAL-I 25.000MHz 18/10 4P (3225) SMD AGX	1		3.132758	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPCODR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1231319251H	Miscellaneous	Quartz Crystal		Y2	X'TAL-I 19.200MHz 18/20 4P (2520) SMD AGX	1		3.132758	
☐	E1231332726H	Miscellaneous	Quartz Crystal		Y3	X'TAL-I 32.768KHz 12.5/20 2P (3215) SMD	1		3.132758	
☐	E1300031640H	Semiconductor	Diode	General Purpose, Si	D9	SWG BAS316 100V/250mA SOD-323 SMD	1		0.487065	Type: General Purpose, Si
☐	E1301005440H	Semiconductor	Diode	General Purpose, Si	D5	SBD Nexperia BAT54C 30V/200mA SOT-23 SMD	1		0.487065	Type: General Purpose, Si
☐	E1301007040H	Semiconductor	Diode	General Purpose, Si	D6	SBD BAS70-05 70V/70mA SOT-23 SMD	1		0.487065	Type: General Purpose, Si
☐	E1301034040H	Semiconductor	Diode	General Purpose, Si	D20	SBR Diodes B340A-13-F 40V/3A SMA SMD(HF)	1		0.487065	Type: General Purpose, Si
☐	E1304000041H	Optical Device	Isolators, Single / Couplers	Phototransistor or Detector	E1,E2,EBT1,EWF1	LED RED 0603 SMD 54mcd LTST-C190KRKT	4		4.359385	Type: Phototransistor Detector

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1305055040 H	Semiconductor	Diode	General Purpose, Si	D8,D12,D13	TVS-4ch L05ESDL5V0 NA-4 8K/15K SLP2510P8	3		1.163236	Type: General Purpose, Si
☐	E1305422040 H	Semiconductor	Diode	General Purpose, Si	D2,D4,D7,D10,D11,D17,D18	TVS-4ch IP4220CZ6 8K/x SOT23-6 SMD	7		2.380868	Type: General Purpose, Si
☐	E1305509442 H	Semiconductor	Diode	General Purpose, Si	D14	TVS-Bi D5094 -260C 26V/600W SMB SMD	1		0.487065	Type: General Purpose, Si
☐	E1311390610 H	Semiconductor	Transistor		Q6,Q13,Q49	PNP ON MMBT3906L T1G -40V/- 0.2A SOT23 SMD	3		180.590976	
☐	E1314532511 H	Semiconductor	Transistor		Q36	LDO APL5325ABI- TRG 300mA/Adj SOT23-5 SMD	1		75.723730	
☐	E1314713810 H	Semiconductor	Transistor		U21	LDO GS7138S5- ADJ-R 150mA/Adj SOT23-5 SMD	1		75.723730	

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Description	E9697ACPCODR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1315013811H	Semiconductor	Transistor		Q5,Q8,Q12,Q14,Q15,Q16,Q19,Q22,Q23,Q28,Q43,Q44,Q45,Q46,Q50,Q52,Q53,Q54,Q55	MOS-Nx2 Nexperia BSS138PS SOT-363 SMD	19		897.583149	
☐	E1315013812H	Semiconductor	Transistor		Q4,Q9,Q11,Q20,Q25,Q27,Q29,Q30,Q31,Q33,Q51,Q58,Q59,Q60,Q61	MOS-N Force Mos MESS138W-G SOT-323 SMD	15		724.510301	
☐	E1315090810H	Semiconductor	Transistor		Q26	MOS-N EMC EMD09N08H EDFN-8(5x6) SMD 80V/	1		75.723730	
☐	E1315205210H	Semiconductor	Transistor		Q2	MOS-P APEC AP2P052N SOT-23 SMD -20V/	1		75.723730	
☐	E1315832110H	Semiconductor	Transistor		Q57	MOS-N ON FDMC8321L PQFN-8 (3.3x3.3) SMD	1		75.723730	
☐	E1315832710H	Semiconductor	Transistor		Q56	MOS-N ON FDMC8327L PQFN-8 (3.3x3.3) SMD	1		75.723730	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S6225642 H	Integrated Circuit	ROM, PROM, EPROM		U3	F-R Winbond W25Q64FWS SIG 64M SO-8	1		1.068607	
☐	E14S0801000 H	Integrated Circuit	Digital		U22	EPSON RX8010SJ SO-8 SMD I2C RTC	1		1.146936	
☐	E14S3019801 H	Integrated Circuit	Digital		U14	Silergy Corp SYX198BQNC QFN-10(3x3) SMD	1		1.146936	
☐	E14S3219100 H	Integrated Circuit	Digital		U19,U24,U26 ,U27,U38	Diodes AP2191WG-7 SOT23-5 SMD 1.5A USB	5		4.599182	
☐	E14S3233000 H	Integrated Circuit	Digital		U40	Diodes AP2330W-7 SC-59 SMD 0.2A Current	1		1.146936	
☐	E14S3299700 H	Integrated Circuit	Digital		U16	GMT G2997BF61U MSOP-P-10 SMD 2A DDR	1		1.146936	
☐	E14S3321901 H	Integrated Circuit	Digital		U7	TI TPS53219AR GTR QFN-16 (3x3) SMD 28V	1		1.146936	

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Reference Designator		MTBF	458252.67
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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S3364200 H	Integrated Circuit	Digital		U17	TI TS3DV642A0 RUAR WQFN-42(3.5x9) SMD 12ch	1		1.146936	
☐	E14S3506900 H	Integrated Circuit	Digital		U23	TI LM5069MM-2/NOPB MSOP-10 SMD Hot Swap/	1		1.146936	
☐	E14S3520900 H	Integrated Circuit	Digital		U30	EMC EM5209VF DFN-14(3x2) SMD 6A Dual	1		1.146936	
☐	E14S3564500 H	Integrated Circuit	Microcontroller		U18	RealTek ALC5645-CG QFN-48(6x6) SMD	1		16.689899	
☐	E14S3727200 H	Integrated Circuit	Digital		U5	Anpec APW7272QBI-TRG TDFN-10(3x3) SMD	1		1.146936	
☐	E14S3903900 H	Integrated Circuit	Digital		U8	TI SND9039A2C TRSKT VQFN-64(8x8) SMD PMIC	1		1.146936	

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Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S4324304 H	Integrated Circuit	Digital		U34,U37	ASIX ZT3243LEEY TSSOP-28 SMD LP 3- 5.5V	2		2.052388	
☐	E14S4348700 H	Integrated Circuit	Digital		U31	MAXIM MAX13487EE SA+ SO-8 SMD RS485/RS422	1		1.146936	
☐	E14S4565503 H	Integrated Circuit	Digital		U10	NuvoTon NCT5655Y (Ver.B) QFN- 24(4x4) SMD	1		1.146936	
☐	E14S4835000 H	Integrated Circuit	Microprocess or		U1	Intel Atom x5 -Z8350 1.44GHz 2M FCBGA592	1		6.727815	
☐	E14S4930601 H	Integrated Circuit	Digital		U20	ON PCA9306USG VSSOP-8 SMD I2C- Bus/SMBus	1		1.146936	
☐	E14S4951400 H	Integrated Circuit	Microcontroll er		U44	Microchip LAN9514-JZX QFN-64(9x9) SMD	1		16.689899	

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Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S5C10800H	Integrated Circuit	Digital		U28,U29	TI SN74AHC1G08DBVR SOT23-5 SMD (HF)	2		2.052388	
☐	E14S5F00702H	Integrated Circuit	Digital		U32,U35,U36,U41	TI SN74LVC1G07DBVR SOT-23-5 SMD (HF)	4		3.765300	
☐	E14S6108G54H	Integrated Circuit	RAM		UR1,UR2,UR3,UR4	DDR3L-1600 512Mx16 FBGA96 (9x13.5) ProMOS	4		35.231845	
☐	E14S6200641H	Integrated Circuit	ROM, PROM, EPROM		U12	F-R Skhnyix H26M74002 HMR 64G FBGA153 SMD	1		1.068607	
☐	E14S6393661H	Integrated Circuit	ROM, PROM, EPROM		U45	EEP MCHP AT93C66B-SSHM-T 4Kbit SO-8 SMD	1		1.068607	
☐	E14S9068200H	Integrated Circuit	Digital		U11	GMT G682L09TT1 2U 0.79V SOT23-5 SMD	1		1.146936	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S9814000H	Integrated Circuit	Microcontroller		U42	ASIX AX78140 LF LQFP-64 SMD USB-4 UART	1		16.689899	
☐	E14XSACPC0OR	Integrated Circuit	ROM, PROM, EPROM		U13	ACP-CHT3 MCU FW 1.00 CS: H	1		1.068607	
☐	E16134200KAR	Connection	IC Socket		JBIO51	PH 4Px2-P8 2.0 180D(M) BLK SMD HOMETOM	1		1.598488	
☐	E1660210202H	Connection	IC Socket		JBAT1	Wafer 2P B-W 1.25 180D (M) NAT SMD CKM	1		1.598488	
☐	E1662311201H	Connection	IC Socket		JAMIC1	Wafer 3P B-W 2.0 90D (M) NAT SMD CKM	1		1.598488	
☐	E1672510210R	Connection	IC Socket		JGPIO1	W-B 10Px2 1.0mm 90D (M) NAT SMD ACES	1		1.598488	
☐	E1672620202R	Connection	IC Socket		JLCD1	W-B 20Px2 1.25mm 180D(M) WHT SMD HOMETOM	1		1.598488	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E1694092100H	Connection	IC Socket		JSD1	Micro SD 9P 1.10 Push-Push SMD ATTEND	1		1.598488	
☐	E1695081300H	Connection	IC Socket		JUIM1	Micro SIM 8P Hinge-Type BLK SMD ATTEND	1		1.598488	
☐	E16BB67103OH	Connection	IC Socket		JM2#1	M.2 67P 0.5 H8.5 90D STD G/F B-key SMD	1		1.598488	
☐	E16D351030OH	Connection	IC Socket		JUSBM1	Micro USB-B 5P 90D(F) BLK SMD Contact	1		1.598488	
☐	E16F1019033R	Connection	IC Socket		JHDMI-1	HDMI 19P 90D(F) STD BLK SMD Foxconn	1		1.598488	
☐	E1907ACPC01RO-H1	Connection	Printed Board, Edge			PCB ACP- CHT3 A01 6L BLU OSP ???	1		2.430011	
☐	E175810301KR	Miscellaneous	Battery		JBAT1	Battery+Cable 3V/220mAh 2P/170mm KTS	1		99.107065	

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Name	MB	Failure Rate	2182.202237
Description	E9697ACPC0DR	Failure Rate, Percentage	10.64
Reference Designator		MTBF	458252.67
Quantity		Calculation Model	

Tag	Part Number	Category	Subcategory	Type	Reference Designator	Description	Quantity	Failure Rate, Override	Failure Rate	Part Data
☐	E14S9617400R	Integrated Circuit	Microcontroller		U43	ENLI ENL-Q6174AM2LGA LGA-76 (12x12.2) SMD	1		16.689899	

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Name	Panel	Failure Rate	18335.839231
Description	E9689410111R	Failure Rate, Percentage	89.36
Reference Designator		MTBF	54538.00
Quantity		Calculation Model	

There is no data to report on.