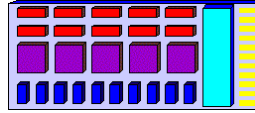


Standard Reliability Prediction Report

Part Number System
Reference Des
Date June 7, 2004
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

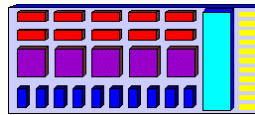


Description Top-level assembly
File Name HESC104_75.RPJ
Time 12:42 PM
Failure Rate 6.443270
MTBF 155,201

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
HESC104	System		1.00	6.443270	155,201

Standard Reliability Prediction Report

Part Number System
Reference Des
Date June 7, 2004
Environment GB, GC - Ground Benign, Controlled
Temperature 30.00

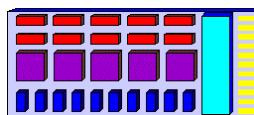


Description Top-level assembly
File Name HESC104_75.RPJ
Time 12:42 PM
Failure Rate 6.443270
MTBF 155,201

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
CAP-0805-0.1U	Capacitor	C12,15,16,17,18,19,- 31,39,40,41,42,43,44- ,45,46,49,51	0.013062	17.00	0.222059
CAP-0805-1.0U	Capacitor	C48	0.016070	1.00	0.016070
CAP-0805-100P	Capacitor	C33,34,35	0.007015	3.00	0.021045
CAP-0805-1n	Capacitor	C24,25	0.008630	2.00	0.017260
CAP-0805-330P	Capacitor	C21,22,23	0.007811	3.00	0.023432
CAP-0805-56nF	Capacitor	C11	0.012398	1.00	0.012398
CAP-1206-1U	Capacitor	C20,27,29,30	0.032465	4.00	0.129860
CAP-D-4U7	Capacitor	C8	0.008183	3.00	0.024548
CAP-D-4U7-35V	Capacitor	C13,26,28,38	0.008183	2.00	0.016365
DIODE-SI-Umelf	Semiconductor	D7,17,41,42,43,44,4- 5,46	0.020765	8.00	0.166119
DIODE-SMB-60V	Semiconductor	D2,3,4,5,6,8,9,10,11- ,12,13,14,15,16,39,40	0.001895	16.00	0.030327
FET-DPAK-N	Semiconductor	Q1,2,3	0.186219	3.00	0.558656
FET-DPAK-P	Semiconductor	Q14	0.151439	1.00	0.151439
FET-P-N-COMP	Semiconductor	Q7	0.434560	1.00	0.434560
FET-SO8-0.01R	Semiconductor	Q9,16	0.435187	2.00	0.870374
FET-SO8-P-.017	Semiconductor	Q17	0.435187	1.00	0.435187
FET-SOT23-J-Pch	Semiconductor	Q15	0.057118	1.00	0.057118
FET-SOT23-N	Semiconductor	Q5,21,22	0.152315	3.00	0.456946
FUSE-SMF-10A	Connection	F1	0.000138	1.00	0.000138
IC-74HC138D	Integrated Circuit	U2,3	0.048490	2.00	0.096979
IC-CRNT-MIRR	Integrated Circuit	CM1,2	0.024900	2.00	0.049800
IC-LT1620CS8	Integrated Circuit	IC3	0.051008	1.00	0.051008
IC-LTC1694CS5	Integrated Circuit	IC6	0.000310	1.00	0.000310
IC-PIC16F877-20/PT	Integrated Circuit	IC5	0.258690	1.00	0.258690
LED-SV-GRN	Semiconductor	LED1,2,3,4,5	0.001476	5.00	0.007382
OSC-SMD-4.0RES	Miscellaneous	XTAL1	0.038000	1.00	0.038000
PCB-HESC104-V1	Connection	PCB1	0.068000	1.00	0.068000
RES-0805-100K	Resistor	R2,4,12,36	0.016257	3.00	0.048771
RES-0805-100R	Resistor	R11,14,15,16,34,44	0.016257	6.00	0.097542
RES-0805-10K0	Resistor	R17,26,42	0.016257	3.00	0.048771
RES-0805-130K	Resistor	R24,28,32	0.016257	3.00	0.048771
RES-0805-15K0	Resistor	R29,30	0.016257	2.00	0.032514
RES-0805-18K0	Resistor	R23	0.016257	1.00	0.016257
RES-0805-191K	Resistor	R31	0.016257	1.00	0.016257
RES-0805-1K00	Resistor	R8,9,10,22	0.016257	4.00	0.065028
RES-0805-1K21	Resistor	R20,21,27	0.016257	3.00	0.048771
RES-0805-200K	Resistor	R7	0.016257	1.00	0.016257
RES-0805-20K	Resistor	R18,3941,71	0.016257	4.00	0.065028
RES-0805-243K	Resistor	R70	0.016257	1.00	0.016257
RES-0805-2K94	Resistor	R45,46	0.016257	2.00	0.032514
RES-0805-392R	Resistor	R13,19,25	0.016257	3.00	0.048771
RES-0805-3K32	Resistor	R6	0.016257	1.00	0.016257
RES-0805-47K5	Resistor	R47,48	0.016257	2.00	0.032514
RES-0805-49K9	Resistor	R33,35	0.016257	2.00	0.032514

Standard Reliability Prediction Report

Part Number System
Reference Des
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Description Top-level assembly
File Name HESC104_75.RPJ
Time 12:42 PM
Failure Rate 6.443270
MTBF 155,201

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
RES-0805-4K99	Resistor	R38,40	0.016257	2.00	0.032514
RES-0805-78K7	Resistor	R43	0.016257	1.00	0.016257
RES-SL1-010	Resistor	R1,3	0.003658	2.00	0.007316
RES-SL1-017	Resistor	R5,37	0.003658	2.00	0.007316
RES-SL1-050	Resistor	R12	0.003658	1.00	0.003658
TR-SOT23-NPN	Semiconductor	Q11	0.001289	1.00	0.001289
TR-SOT23-PNP	Semiconductor	Q10	0.000096	1.00	0.000096
VR-LTC1149CS	Integrated Circuit	IC2	0.003939	1.00	0.003939
VR-LTC1159CS-5	Integrated Circuit	IC1	0.003939	1.00	0.003939
VR-LTC1266CS	Integrated Circuit	IC4	0.003142	1.00	0.003142
VR-SO-78L05	Integrated Circuit	Q4	0.053343	1.00	0.053343
VR-SO-LM2936M-5	Integrated Circuit	Q28	0.028412	1.00	0.028412
VR-NML0505S	Integrated Circuit	VR1	0.429738	1.00	0.429738
CAP-OSCN-150U	Capacitor	C14,32,47	0.005384	2.00	0.010768
CAP-OSCN-180U	Capacitor	C36,37	0.005614	3.00	0.016843
CAP-OSCN-33U	Capacitor	C2,3,4,5,6,7	0.003801	6.00	0.022803
CAP-OSCN-680U	Capacitor	C9,10	0.007622	2.00	0.015244
CAP-RAD-330U	Capacitor	C1	0.006454	1.00	0.006454
CON-DR/HDRS	Connection	CN5	0.000120	1.00	0.000120
CON-PC104-16-SR	Connection	J2	0.052000	2.00	0.104000
CON-PC104-8	Connection	J1	0.083200	1.00	0.083200
CON-PCB-RA2-3.81	Connection	CN1	0.000030	1.00	0.000030
CON-PLUG2-3.81	Connection	CN1	0.124000	1.00	0.124000
TERM-PCB4-3.5	Connection	CN4	0.253200	1.00	0.253200
TERM-PCB5-3.5	Connection	CN2,3,7	0.316500	1.00	0.316500
TOR-10A-H-50U	Inductor	L1	0.000097	1.00	0.000097
TOR-5A-H-10U	Inductor	L2	0.000097	1.00	0.000097
TOR-5A-H-50U	Inductor	L3,4	0.000097	2.00	0.000193
XSORB-AXIAL-43V	Semiconductor	D1	0.001895	1.00	0.001895