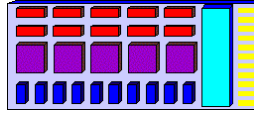


**Standard Reliability Prediction Report**

**Part Number** HE104-DX-V1-R2  
**Reference Des**  
**Date** June 7, 2004  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

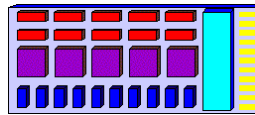


**Description** Top-level assembly  
**File Name** HE104-DX.RPJ  
**Time** 10:44 AM  
**Failure Rate** 4.588672  
**MTBF** 217,928

Assembly Name	Part Number	Ref Des	Qty	Failure Rate	MTBF
HE104-DX	HE104-DX-V1-R2		1.00	4.588672	217,928

**Standard Reliability Prediction Report**

**Part Number** HE104-DX-V1-R2  
**Reference Des**  
**Date** June 7, 2004  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00

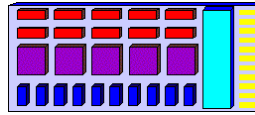


**Description** Top-level assembly  
**File Name** HE104-DX.RPJ  
**Time** 10:44 AM  
**Failure Rate** 4.588672  
**MTBF** 217,928

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
CAP-0603-0.1U	Capacitor	C6,7,15-19,22,25,28-31-34,38	0.013062	15.00	0.195935
CAP-0805-0.1U	Capacitor	C12	0.013062	1.00	0.013062
CAP-0805-1.0U	Capacitor	C48	0.016070	1.00	0.016070
CAP-0805-100P	Capacitor	C35	0.007015	1.00	0.007015
CAP-0805-1N	Capacitor	C24	0.008630	1.00	0.008630
CAP-0805-1.0U	Capacitor	C20	0.016070	1.00	0.016070
CAP-0805-330P	Capacitor	C21,23	0.007811	2.00	0.015621
CAP-0805-56NF	Capacitor	C11	0.012398	1.00	0.012398
CAP-1206-1U	Capacitor	C29,30	0.032465	2.00	0.064930
CAP-D-4U7	Capacitor	C8	0.008183	1.00	0.008183
CAP-D-4U7-35V	Capacitor	C13,26	0.008183	2.00	0.016365
DIODE-SI-UMELF	Semiconductor	D17,41,43,44,45	0.020765	5.00	0.103824
DIODE-SMB-60V	Semiconductor	D2,3,15,16,39,40	0.001895	6.00	0.011373
DIODE-SOT23-SINGLE1	Semiconductor	Z1	0.036266	1.00	0.036266
FET-DPAK-N	Semiconductor	Q1,2,3	0.186219	3.00	0.558656
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-N	Semiconductor	Q5	0.152315	1.00	0.152315
FUSE-SMF-10A	Miscellaneous	F1	0.010000	1.00	0.010000
LED-SV-GRN	Semiconductor	LED1,2,3,4	0.001476	4.00	0.005905
OPTO-SO8-DUAL	Semiconductor	IC5	0.109121	1.00	0.109121
PCB-HE104-DX-V1	Connection	PCB	0.034000	1.00	0.034000
RES-0805-100R	Resistor	R11,14,15,16	0.016257	4.00	0.065028
RES-0805-10K0	Resistor	R9,17,26,12,18	0.016257	5.00	0.081285
RES-0805-130K	Resistor	R32	0.016257	1.00	0.016257
RES-0805-15K0	Resistor	R30	0.016257	1.00	0.016257
RES-0805-18K0	Resistor	R23	0.016257	1.00	0.016257
RES-0805-1K00	Resistor	R8,10	0.016257	2.00	0.032514
RES-0805-1K21	Resistor	R20,21,27	0.016257	3.00	0.048771
RES-0805-392R	Resistor	R13,19	0.016257	2.00	0.032514
RES-SL1-010	Resistor	R1	0.003658	1.00	0.003658
RES-SL1-017	Resistor	R37	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-LTC1159CS-5	Integrated Circuit	IC1	0.003939	1.00	0.003939
VR-LTC1266CS	Integrated Circuit	IC4	0.003142	1.00	0.003142
XSORB-SMCJ-43V	Semiconductor	D1,D4	0.000096	2.00	0.000191
CAP-OSCN-150U	Capacitor	C14,47	0.005384	2.00	0.010768
CAP-OSCN-180U	Capacitor	C36,37	0.005614	2.00	0.011229
CAP-OSCN-33U	Capacitor	C2,3,4,5	0.003801	4.00	0.015202
CAP-OSCN-680U	Capacitor	C9,10	0.007622	2.00	0.015244
CAP-RAD-330U	Capacitor	C1	0.006454	1.00	0.006454
CON-PC104-16PF	Connection	J2	0.052000	1.00	0.052000
CON-PC104-8PF	Connection	J1	0.083200	1.00	0.083200
CON-PCB-RA2-3.81	Connection	CN1	0.000030	1.00	0.000030

**Standard Reliability Prediction Report**

**Part Number** HE104-DX-V1-R2  
**Reference Des**  
**Date** June 7, 2004  
**Environment** GB, GC - Ground Benign, Controlled  
**Temperature** 30.00



**Description** Top-level assembly  
**File Name** HE104-DX.RPJ  
**Time** 10:44 AM  
**Failure Rate** 4.588672  
**MTBF** 217,928

Part Number	Category	Ref Des	Failure Rate, Unit	Quantity	Failure Rate
CON-PCB-RA6-3.5	Connection	CN2,CN3	0.007800	1.00	0.007800
CON-PLUG2-3.81	Connection	CN1	0.124000	1.00	0.124000
CON-PLUG6-3.5	Connection	CN2,CN3	0.372000	1.00	0.372000
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	L4	0.000097	1.00	0.000097
VR-NML0505S	Integrated Circuit	VR1	0.429738	1.00	0.429738