



# RELIABILITY MONITOR SUMMARY

QUARTERLY SUMMARY, QUARTER 2, 1995

July 26, 1995

PERFORMED PER THE REQUIREMENTS OF 25-00008, RELIABILITY MONITOR PROGRAM SPECIFICATION.

ORIGINATOR:

\_\_\_\_\_  
MUOI VU  
QUALITY ENGINEER

\_\_\_\_\_  
DATE

APPROVED:

\_\_\_\_\_  
TOM HOYLE  
SENIOR RELIABILITY ENGINEER

\_\_\_\_\_  
DATE



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## STANDARD STRESS TEST DESCRIPTIONS

Test	Description
HTOL	High Temp Op Life, 150°C, 5.75V
HTOL2	High Temp Op Life, 125°C, 5.75V
HTSSL	High Temp Steady State Life, 150°C, 5.75V
HTSSL2	High Temp Steady State Life, 125°C, 5.75V
DRET	Data Retention Test, Data Bake 165°C, Plastic
DRET2	Data Retention Test, Data Bake 250°C, Hermetic
PCT	Pressure Cooker Test, 121°C, 100% RH, No Bias
HAST	Hi-Accel Saturation Test, 140°C, 85% RH, 5.5V Bias
85/85	Hi-Accel Saturation Test, 85°C, 85V
TC	Temp Cycle, 125°C to -40°C
TC2	Temp Cycle, 150°C to -65°C
HTS	High Temp Storage, 185°C, No Bias



## WAFER FAB AREAS

FAB #	LOCATION
CA	SAN JOSE, CALIFORNIA
TX	ROUND ROCK, TEXAS
MN	BLOOMINGTON, MINNESOTA
FR	MHS, FRANCE

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## ASSEMBLY LOCATIONS

COMPANY/LOCATION	ID
Anam-Buchon/Korea	KOREA-A
Asat/Hongkong	ASAT-B
Cypress/USA	USA-C
Dynesem/Phillipine	PHIL-D
Cypress-Minesota/USA	USA-E
Astra/Indonesia	INDNS-F
Golden Altos/USA	USA-G
Hyundai/Korea	KOREA-H
Indy/USA	USA-I
Kyocera/Japan	JAPAN-K
Anam-Seoul/Korea	KOREA-L
Anam/Phillipine	PHIL-M
Omedata/Indonesia	INDNS-O
Pantronix/USA	USA-P
Anam-Bupyong/Korea	KOREA-Q
TSCM/Taiwan	TAIWAN-R
Chinkteik/Thailand	THLAND-S
OSE/Taiwan	TAIWAN-T
Unisem/Malaysia	MALAY-U
VLSI/USA	USA-V
Toshiba/USA	USA-W
Cypress Bangkok/Thailand	ALPHA-X
Alphatech/Thailand	ALPHA-Y

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## TEST LOCATIONS

TEST #	COMPANY/LOCATION
1	Cypress San Jose, California
2	Cypress Bangkok, Thailand
3	Omedata, Indonesia
4	Anam, Korea
5	Astra, Indonesia



### Description of Data Table Column Headings

Column Heading	Description of Column Contents
Test	Common code for the stress performed. See table on previous page for detail.
Test Condition	Temp/humidity/bias conditions for the stress. See table on previous page for detail.
Device ID	Cypress manufacturing part number for specific type.
Date Code	Week in which the specific lot was sealed/molded.
Lot Number	Manufacturing (assembly) lot number of material stressed.
Function	Generic product family at Cypress.
Description	Brief description of device function.
Technology	Fabrication process technology. See Cypress Product Matrix for detail.
Process	Generic fabrication process.
Process Location	State where fabrication facility is located. See table on previous page for detail.
Pkg Material	Generic packaging material
Pkg Type	Common code for standard package configuration (PDIP=Plastic Dual-In-Line-Package).
Package Location	Country Location + Initial of assembly house (see table on previous page for detail).
# Pins	Pin count of package in which device is assembled.
Duration	Data Readpoint of stress. For Temp Cycle (TC)=Cycles; all other stresses=Hours.
# Tested	Quantity of devices submitted to this stress/test.
# Failed	Quantity of devices failing at this specific readpoint.
Fail Mode	Failure analysis results from this test, if any.





QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Dura-tion	Test	Fail	Fail Mode
PRODUCT GROUP: CPD																	
HASTX	140 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	128	45	0	
HASTX	140 deg/3.5V	CY2254-SC	9513	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	128	45	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	2	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	20	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	238	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	240	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	80	238	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	500	116	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	240	0	
HTOLX	150 deg/3.5V	CY2254-SC	9510	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	240	0	
HTOLX	150 deg/3.5V	CY2254-SC	9513	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	48	20	0	
HTOLX	150 deg/3.5V	CY2254-SC	9513	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	80	116	0	
HTOLX	150 deg/3.5V	CY2254-SC	9513	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	500	116	0	
HTSSLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	80	75	0	
HTSSLX	150 deg/3.5V	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	168	75	0	
PCT	121 deg/100%RH	CY2254-SC	9510	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	168	45	0	
PCT	121 deg/100%RH	CY2254-SC	9513	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	168	45	0	
TC2	(-65) to 150deg	CY2254-SC	9510	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	300	45	0	
TC2	(-65) to 150deg	CY2254-SC	9510	3506332	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	1000	45	0	
TC2	(-65) to 150deg	CY2254-SC	9513	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	300	45	0	
TC2	(-65) to 150deg	CY2254-SC	9513	3505265	LOGIC	Clock Syn.	SRAM/LOGIC-LG27	CMOS	MN	Plastic	SOIC	PHIL-M	28	1000	45	0	



QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test	Fail	Fail Mode
PRODUCT GROUP: FCT																	
HAST	140 deg/85%RH/5V	CY74FCT162543TPAC	N/A	349502264	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	128	10	0		
HAST	140 deg/85%RH/5V	CY74FCT162543TPAC	N/A	349502264	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	128	36	0		
HAST	140 deg/85%RH/5V	CY74FCT162543TPAC	N/A	349502265	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	128	22	0		
HAST	140 deg/85%RH/5V	CY74FCT162543TPAC	N/A	349502265	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	128	26	0		
PCT	121 deg/100%RH	CY74FCT162543TPAC	N/A	349502264	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	168	48	0		
PCT	121 deg/100%RH	CY74FCT162543TPAC	N/A	349502265	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	168	50	0		
TC	(-40) to 125deg	CY74FCT827TQC	9443	349413687	LOGIC	10-Bit Buf. SRAM/LOGIC-LG27	CMOS	MN	Plastic	QSOP	MALAY-U	24	500	80	0		
TC	(-40) to 125deg	CY74FCT827TQC	9443	349413687	LOGIC	10-Bit Buf. SRAM/LOGIC-LG27	CMOS	MN	Plastic	QSOP	MALAY-U	24	1500	80	0		
TC2	(-65) to 150deg	CY74FCT162543TPAC	N/A	349502264	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	300	46	0		
TC2	(-65) to 150deg	CY74FCT162543TPAC	N/A	349502264	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	1000	46	0		
TC2	(-65) to 150deg	CY74FCT162543TPAC	N/A	349502265	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	300	48	0		
TC2	(-65) to 150deg	CY74FCT162543TPAC	N/A	349502265	LOGIC	16-Bit Lat. SRAM/LOGIC-LG27	CMOS	MN	Plastic	TSSOP	KOREA-Q	56	1000	48	0		



**CYPRESS**  
**SEMICONDUCTOR**  
**PRODUCT RELIABILITY**

QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Durability	Test	Fail	Fail Mode
PRODUCT GROUP: LOGIC/DCOM																	
HAST	140 deg/85%RH/5V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	128	48	0	
HAST	140 deg/85%RH/5V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	100	16	0	
HAST	140 deg/85%RH/5V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	100	30	0	
HTOL	150 deg/5.75V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	48	507	0	
HTOL	150 deg/5.75V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	80	80	0	
HTOL	150 deg/5.75V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	80	120	1	IONIC CONT.
HTOL	150 deg/5.75V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	500	119	0	
HTOL	150 deg/5.75V	CY7B923-JC	9514	349504850	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	48	1067	0	
HTOL	150 deg/5.75V	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	48	99	0	
HTOL	150 deg/5.75V	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	48	408	0	
HTOL	150 deg/5.75V	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	80	120	0	
HTOL	150 deg/5.75V	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	500	120	0	
HTOL	150 deg/5.75V	CY7B923-LMB	9427	219407764	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	184	50	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9341	49304967	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	48	53	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9341	49304967	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	48	269	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9341	49304968	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	48	426	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9341	49304968	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	80	139	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9341	49304968	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	500	139	0	
HTOL	150 deg/5.75V	CY7B991-7JC	9347	49306462	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	48	143	0	
HTOL	150 deg/5.75V	CY7B991-7LMB	9311	97739	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	184	50	0	
HTOL	150 deg/5.75V	CY7B991-7LMB	9340	219305442	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	184	77	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	184	48	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	48	215	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	48	324	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	80	116	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	184	77	0	
HTOL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	500	116	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	9309	96360	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	24	900	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	9309	96360	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	96	900	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	96	251	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	96	284	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	168	250	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	1000	250	0	
HTOL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	2000	250	0	
HTOL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	48	37	0	
HTOL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	48	288	0	
HTOL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	96	37	0	
HTOL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	96	285	0	3 EOS
HTOL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	1000	210	0	
HTSSL	150 deg/5.75V	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	168	78	0	
HTSSL	150 deg/5.75V	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	168	80	0	
HTSSL	150 deg/5.75V	CY7B991-7JC	9341	49304968	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	80	96	0	
HTSSL	150 deg/5.75V	CY7B991-7JC	9341	49304968	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	32	168	96	0	
HTSSL	150 deg/5.75V	CY7B992-7LMB	9344	219306627	COMM	PSCB	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	32	80	76	0	

QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Durability	Test	Fail	Fail Mode
PRODUCT GROUP: LOGIC/DCOM																	



**CYPRESS  
SEMICONDUCTOR  
PRODUCT RELIABILITY**

HTSSL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	168	76	0	
HTSSL2	125 deg/5.75V	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	336	75	0	1 ESD
HTSSL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	168	72	0	4 EOS
HTSSL2	125 deg/5.75V	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	336	71	0	1 EOS
PCT	121 deg/100%RH	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	168	48	0	
PCT	121 deg/100%RH	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	168	46	0	
TC	(-40) to 125deg	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	300	46	0	
TC	(-40) to 125deg	CY7B991-7JC	N/A	89719	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Plastic	PLCC	KOREA-A	32	1000	46	0	
TC2	(-65) to 150deg	CY7B134-35PI	9504	349500280	SRAM	4K x 8 DP	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	KOREA-H	48	300	77	0	
TC2	(-65) to 150deg	CY7B134-35PI	9504	349500280	SRAM	4K x 8 DP	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	KOREA-H	48	1000	77	4	TOPSIDE CRACKS
TC2	(-65) to 150deg	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	300	48	0	
TC2	(-65) to 150deg	CY7B923-JC	9416	49404074	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Plastic	PLCC	KOREA-A	28	1000	48	1	TOPSIDE CRACKS
TC2	(-65) to 150deg	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	100	50	0	
TC2	(-65) to 150deg	CY7B923-LM	9432	219409342	COMM	HOTLink	BICMOS-SM1	BiCMOS	TX	Ceramic	LCC	ALPHA-X	28	1000	50	0	
TC2	(-65) to 150deg	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	100	45	0	
TC2	(-65) to 150deg	CY7B992-7LC	9242	89490	COMM	PSCB	BICMOS-SM1	BiCMOS	CA	Ceramic	LCC	USA-C	32	1000	44	0	1 EOS



QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test	Fail	Fail Mode
PRODUCT GROUP: MTI																	
PCT	121 deg/100%RH	CYM1831PZ-ZIP	9410	506612	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	168	12	0	
T/C2-M	(-5) to 85C	CYM7264	N/A	N/A	SRAM	128K CACHE	SMT	STD	CA	Plastic	SIMM	VELIE	112	100	15	0	
T/C2-M	(-5) to 85C	CYM7264	N/A	N/A	SRAM	128K CACHE	SMT	STD	CA	Plastic	SIMM	VELIE	112	500	15	0	
T/C2-M	(-40) to 100deg	CYM1831PZ	9430	507170	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	100	30	0	
T/C2-M	(-40) to 100deg	CYM1831PZ	9430	507170	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	500	30	0	
T/C2-M	(-40) to 100deg	CYM1831PZ	9430	507170	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	1000	15	0	
T/C2-M	(-40) to 100deg	CYM1831PZ-ZIP	9410	506612	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	100	32	0	
T/C2-M	(-40) to 100deg	CYM1831PZ-ZIP	9410	506612	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	500	16	0	
T/C2-M	(-40) to 100deg	CYM7425	9509	9509671	SRAM	256K CACHE	SMT	STD	CA	Plastic	SIMM	VELIE	112	100	16	0	
TC	(-40) to 125deg	CYM1831PZ	9428	507001	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	100	33	0	
TC	(-40) to 125deg	CYM1831PZ	9428	507001	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	500	33	0	
TC	(-40) to 125deg	CYM1831PZ	9428	507001	SRAM	64Kx32 MOD	SMT	STD	CA	Plastic	ZIP	COMPEG	64	1000	17	0	



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QUARTERLY RELIABILITY DATA  
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Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: PLD																
DRET	165 deg C	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	79	0	
DRET	165 deg C	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	552	79	0	
DRET	165 deg C	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	79	0	
DRET	165 deg C	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	552	79	0	
DRET	165 deg C	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	85	0	
DRET	165 deg C	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	552	85	0	
DRET	165 deg C	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	85	0	
DRET	165 deg C	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	552	85	0	
DRET	165 deg C	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	85	0	
DRET	165 deg C	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	552	85	0	
DRET	165 deg C	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	80	0	
DRET	165 deg C	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	552	80	0	
DRET2	250 deg C	CY7C374-100YC	9444	349413105	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	96	9	0	
DRET2	250 deg C	CY7C374-100YC	9444	349413105	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	96	79	0	
DRET2	250 deg C	CY7C374-100YC	9444	349413105	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	168	9	0	
DRET2	250 deg C	CY7C374-100YC	9444	349413105	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	168	70	0	
HAST	140 deg/85%RH/5V	CY7C342-40JI	9508	349501133	PLD	128 MCELL FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	68	128	73	2	TOPSIDE CRACKS
HAST	140 deg/85%RH/5V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	128	45	0	
HAST	140 deg/85%RH/5V	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	128	48	0	
HAST	140 deg/85%RH/5V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	128	22	0	
HAST	140 deg/85%RH/5V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	128	24	0	
HAST	140 deg/85%RH/5V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	128	23	0	
HAST	140 deg/85%RH/5V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	128	24	0	
HAST	140 deg/85%RH/5V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	128	51	0	
HAST	140 deg/85%RH/5V	PALCE16V8-25OC	9449	349413684	PLD	CMOS PAL FLASH-FL22D	CMOS	CA	Plastic	QSOP	MALAY-U	20	128	19	0	
HAST	140 deg/85%RH/5V	PALCE16V8-25OC	9449	349413684	PLD	CMOS PAL FLASH-FL22D	CMOS	CA	Plastic	QSOP	MALAY-U	20	128	60	0	
HTOL	150 deg/5.75V	CY7C343-35JC	9508	349502387L	PLD	64 MCELL FAMOS-P21DH	CMOS	TX	Plastic	PLCC	KOREA-A	44	12	472	0	
HTOL	150 deg/5.75V	CY7C343-35JC	9510	349503251L	PLD	64 MCELL FAMOS-P21DH	CMOS	TX	Plastic	PLCC	KOREA-A	44	12	473	0	2 EOS
HTOL	150 deg/5.75V	CY7C343-35JC	9513	349505113L	PLD	64 MCELL FAMOS-P21DH	CMOS	TX	Plastic	PLCC	KOREA-A	44	12	468	0	13 EOS
HTOL	150 deg/5.75V	CY7C374-100GMB	9448	219414661	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	CPGA	ALPHA-X	84	184	78	0	2 EOS
HTOL	150 deg/5.75V	CY7C374-100YC	9443	49409172	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	80	78	0	1 EOS
HTOL	150 deg/5.75V	CY7C374-100YC	9443	49409172	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	500	75	0	2 EOS
HTOL	150 deg/5.75V	CY7C374-100YC	9443	49409172	PLD	32 MCELL FL FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	1000	71	0	4 EOS
HTOL	150 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	80	44	0	
HTOL	150 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	184	79	0	1 EOS
HTOL	150 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	184	79	0	1 EOS
HTOL	150 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	500	44	0	
HTOL	150 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	500	79	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	75	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	118	0	1 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	331	0	3 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	118	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	500	118	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	119	0	

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Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: PLD																
HTOL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10 FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	332	0	2 EOS



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HTOL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	119	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	500	119	0	
HTOL	150 deg/5.75V	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	73	0	2 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	333	0	1 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	336	0	7 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	118	0	1 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	500	116	0	2 EOS
HTOL	150 deg/5.75V	PALC22V10D-10PC	9512	349504821	PLD	PALC22V10	FLASH-FL22D	CMOS	CA	Plastic	PDIP	INDNS-O	24	48	75	0	
HTOL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	96	116	0	
HTOL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	500	116	0	
HTOL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	1000	116	0	
HTOL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	2000	116	0	
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	154	0	
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	154	1	OXIDE DEFECT
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	152	0	
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	2000	152	0	
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	115	0	
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	78	0	1 EOS
HTOL2	125 deg/5.75V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	2000	78	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	197	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	947	188	0	9 EOS
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	183	0	5 EOS
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	2000	168	0	15 EOS
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	392	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	350	392	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	390	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1157	390	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	392	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	500	374	0	14 EOS
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	323	0	51 EOS
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9417	49404392	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	118	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9417	49404392	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	500	118	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9417	49404394	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	118	0	
HTOL2	125 deg/5.75V	PAL22V10G-10JC	9417	49404394	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	500	118	0	
HTOL2	125 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	12	517	0	8 EOS
HTOL2	125 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	48	517	0	
HTOL2	125 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	116	0	4 EOS
HTOL2	125 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	500	115	0	1 EOS
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	84	0	1 EOS
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	82	0	2 EOS
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	85	0	
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	85	0	
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	85	0	
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	85	0	

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Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: PLD																
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	80	83	0
HTSSL	150 deg/5.75V	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	83	0
HTSSL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	96	116	0
HTSSL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	500	116	0
HTSSL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	1000	116	0
HTSSL2	125 deg/5.75V	CY7C341-30JC	9435	349410292	PLD	192 MCELL	FAMOS-P20DHL	CMOS	TX	Plastic	PLCC	KOREA-A	84	2000	116	0
HTSSL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	78	0
HTSSL2	125 deg/5.75V	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	336	78	0
HTSSL2	125 deg/5.75V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	79	0
HTSSL2	125 deg/5.75V	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	336	76	0
HTSSL2	125 deg/5.75V	CY7C374-100JC	9428	49408152	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	217	60	0



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HTSSL2	125 deg/5.75V	CY7C374-100JC	9428	49408152	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	433	60	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	131	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	336	131	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	131	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	131	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	336	131	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	168	78	0	
HTSSL2	125 deg/5.75V	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	336	78	0	
PCT	121 deg/100%RH	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	16	0	
PCT	121 deg/100%RH	CY7C374-100JC	9419	49405074	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	288	16	0	
PCT	121 deg/100%RH	CY7C374-100JC	9420	49405479	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	32	0	
PCT	121 deg/100%RH	CY7C374-100JC	9420	49405479	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	288	32	0	
PCT	121 deg/100%RH	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	168	48	0	
PCT	121 deg/100%RH	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	288	48	0	
PCT	121 deg/100%RH	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	45	0	
PCT	121 deg/100%RH	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	168	47	0	
PCT	121 deg/100%RH	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	51	0	
PCT	121 deg/100%RH	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	288	51	0	
PCT	121 deg/100%RH	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	168	51	0	
PCT	121 deg/100%RH	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	288	51	0	
TC	(-40) to 125deg	CY7C374-100AC	9505	349415643	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	TQFP	KOREA-Q	100	500	48	0	
TC	(-40) to 125deg	CY7C374-100AC	9505	349415643	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	TQFP	KOREA-Q	100	1000	48	0	
TC	(-40) to 125deg	CY7C374-100AC	9505	349415643	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	TQFP	KOREA-Q	100	1500	48	0	
TC	(-40) to 125deg	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	100	48	1	BROKEN BOND @ POST
TC	(-40) to 125deg	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	400	47	0	
TC	(-40) to 125deg	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	500	47	0	
TC	(-40) to 125deg	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	46	1	BROKEN BOND @ POST
TC	(-40) to 125deg	CY7C374-100JC	9419	49405073	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	45	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	100	47	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	500	47	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	3	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	44	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	3	0	
QUARTERLY RELIABILITY DATA CYPRESS SEMICONDUCTOR CORPORATION QUARTER: Q295 YEAR: 1995																	
Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test	Fail	Fail Mode
PRODUCT GROUP: PLD																	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408147	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	44	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408148	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	100	48	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408148	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	500	48	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408148	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	48	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408148	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	48	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408149	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	300	45	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408149	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	500	45	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408149	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1000	45	0	
TC	(-40) to 125deg	CY7C374-100JC	9428	49408149	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	1500	45	0	
TC2	(-65) to 150deg	CY7C374-100JC	9420	49405480	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Plastic	PLCC	KOREA-A	84	300	47	0	
TC2	(-65) to 150deg	CY7C374-100YC	9443	49409172	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	100	49	0	
TC2	(-65) to 150deg	CY7C374-100YC	9443	49409172	PLD	32 MCELL FL	FLASH-FL22D	CMOS	CA	Ceramic	HLCC	PHIL-M	84	1000	47	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	300	47	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9410	49402500	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	47	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	300	45	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9411	49402681	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	45	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	300	47	0	
TC2	(-65) to 150deg	PAL22V10G-10JC	9411	49402955	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Plastic	PLCC	KOREA-A	28	1000	46	1	UNKNOWN
TC2	(-65) to 150deg	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	100	47	0	
TC2	(-65) to 150deg	PAL22V10G-10LMB	9433	219409759	PLD	PAL22V10G	BICMOS-SP3	BiCMOS	CA	Ceramic	LCC	ALPHA-X	28	1000	47	0	
TC2	(-65) to 150deg	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	300	51	0	
TC2	(-65) to 150deg	PALC22V10D-10PC	9443	349413168	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	1000	51	0	





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TC2	(-65) to 150deg	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	300	51	0
TC2	(-65) to 150deg	PALC22V10D-10PC	9444	349413496	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	1000	51	0
TC2	(-65) to 150deg	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	300	51	0
TC2	(-65) to 150deg	PALC22V10D-10PC	9445	349414067	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	1000	51	0
TC2	(-65) to 150deg	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	300	45	0
TC2	(-65) to 150deg	PALC22V10D-10PC	9506	349501766	PLD	PALC22V10	FLASH-FL22D	CMOS	FR	Plastic	PDIP	INDNS-O	24	1000	45	0
TC2	(-65) to 150deg	PALCE16V8-25OC	9449	349413684	PLD	CMOS PAL	FLASH-FL22D	CMOS	CA	Plastic	QSOP	MALAY-U	20	300	50	0
TC2	(-65) to 150deg	PALCE16V8-25OC	9449	349413684	PLD	CMOS PAL	FLASH-FL22D	CMOS	CA	Plastic	QSOP	MALAY-U	20	1000	50	0



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QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: SRAM																
HAST	140 deg/85%RH/5V	CY7C109A-25VC	9508	349500889	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	SOJ	KOREA-L	32	128	76	0
HAST	140 deg/85%RH/5V	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	128	48	0
HAST	140 deg/85%RH/5V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	128	45	0
HAST	140 deg/85%RH/5V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	256	45	0
HAST	140 deg/85%RH/5V	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	128	45	0
HAST	140 deg/85%RH/5V	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	256	45	0
HAST	140 deg/85%RH/5V	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	128	50	0
HAST	140 deg/85%RH/5V	CY7C199-12PC	9443	349412994	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-15PC	N/A	12265 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-15VC	9512	13023 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	128	42	0
HAST	140 deg/85%RH/5V	CY7C199-15VC	9512	13025 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	128	44	0
HAST	140 deg/85%RH/5V	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	128	47	1
HAST	140 deg/85%RH/5V	CY7C199-15ZC	N/A	12896 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	128	47	0
HAST	140 deg/85%RH/5V	CY7C199-15ZC	N/A	12897 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	128	47	0
HAST	140 deg/85%RH/5V	CY7C199-45PC	N/A	12263	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-45PC	N/A	12264	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	128	45	0
HAST	140 deg/85%RH/5V	CY7C199-45VC	9509	219501636	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-X	28	128	79	0
HTOL	150 deg/5.75V	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	48	501	0
HTOL	150 deg/5.75V	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	80	120	0
HTOL	150 deg/5.75V	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	500	118	0
HTOL	150 deg/5.75V	CY7C199-12PC	9443	349412994	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	80	119	0
HTOL	150 deg/5.75V	CY7C199-12PC	9443	349412994	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	500	118	0
HTOL	150 deg/5.75V	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	80	120	0
HTOL	150 deg/5.75V	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	500	120	0
HTOL	150 deg/5.75V	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	80	120	0
HTOL	150 deg/5.75V	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	500	120	0
HTOL	150 deg/5.75V	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	48	565	0
HTOL	150 deg/5.75V	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	80	120	0
HTOL	150 deg/5.75V	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	500	120	0
HTOL	150 deg/5.75V	CY7C199-45PC	9501	219415904	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	48	550	0
HTOL	150 deg/5.75V	CY7C199-45PC	9501	219415904	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	80	120	0
HTOL	150 deg/5.75V	CY7C199-45PC	9501	219415904	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	500	120	0
HTOL	150 deg/5.75V	CY7C199-45PC	9502	219500450	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	48	520	0
HTOL	150 deg/5.75V	CY7C199-45PC	9502	219500450	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	80	120	0
HTOL	150 deg/5.75V	CY7C199-45PC	9502	219500450	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	PDIP	ALPHA-X	28	500	120	0
HTOL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	96	119	0
HTOL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	500	116	0
HTOL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	1000	103	0
HTOL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	2000	103	0
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	80	83	0
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	48	0

QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: SRAM																
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	83	0



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HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	80	54	0	
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	80	82	0	
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	54	0	
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	82	1	UNKNOWN
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	80	81	0	
HTSSL	150 deg/5.75V	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	81	0	
HTSSL	150 deg/5.75V	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	80	80	0	
HTSSL	150 deg/5.75V	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	168	80	0	
HTSSL	150 deg/5.75V	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	80	80	0	
HTSSL	150 deg/5.75V	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	168	80	0	
HTSSL2	125 deg/5.75V	CY7B166-25PC	9434	219410117	SRAM	64K BiCMOS	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	ALPHA-X	24	96	119	0	
HTSSL2	125 deg/5.75V	CY7B166-25PC	9434	219410117	SRAM	64K BiCMOS	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	ALPHA-X	24	500	119	0	
HTSSL2	125 deg/5.75V	CY7B166-25PC	9434	219410117	SRAM	64K BiCMOS	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	ALPHA-X	24	1000	119	0	
HTSSL2	125 deg/5.75V	CY7B166-25PC	9434	219410117	SRAM	64K BiCMOS	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	ALPHA-X	24	1500	119	0	
HTSSL2	125 deg/5.75V	CY7B166-25PC	9434	219410117	SRAM	64K BiCMOS	BICMOS-SM2	BiCMOS	TX	Plastic	PDIP	ALPHA-X	24	2000	119	1	TOPSIDE CRACKS
HTSSL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	96	119	0	
HTSSL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	500	119	0	
HTSSL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	1000	118	0	
HTSSL2	125 deg/5.75V	CY7C199-45VI	9434	219413816	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-Y	28	2000	118	0	
PCT	121 deg/100%RH	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	48	0	
PCT	121 deg/100%RH	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	48	0	
PCT	121 deg/100%RH	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	168	48	0	
PCT	121 deg/100%RH	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	168	50	0	
PCT	121 deg/100%RH	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	168	45	0	
PCT	121 deg/100%RH	CY7C199-15PC	N/A	12265 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	168	45	0	
PCT	121 deg/100%RH	CY7C199-15VC	9512	13023 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	168	45	0	
PCT	121 deg/100%RH	CY7C199-15VC	9512	13025 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	168	45	0	
PCT	121 deg/100%RH	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	168	50	0	
PCT	121 deg/100%RH	CY7C199-15ZC	N/A	12896 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	168	47	0	
PCT	121 deg/100%RH	CY7C199-15ZC	N/A	12897 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	168	47	0	
PCT	121 deg/100%RH	CY7C199-45PC	N/A	12263	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	168	45	0	
PCT	121 deg/100%RH	CY7C199-45PC	N/A	12264	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	168	45	0	
TC	(-40) to 125deg	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	500	48	0	
TC	(-40) to 125deg	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	1000	48	0	
TC	(-40) to 125deg	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	1500	48	0	
TC	(-40) to 125deg	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	500	45	0	
TC	(-40) to 125deg	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	1000	45	0	
TC	(-40) to 125deg	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	500	45	0	
TC	(-40) to 125deg	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	1000	45	0	
TC	(-40) to 125deg	CY7C199-12VC	9452	349416327	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	SOJ	INDNS-O	28	500	80	0	
TC	(-40) to 125deg	CY7C199-12VC	9452	349416327	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	SOJ	INDNS-O	28	1500	80	0	
TC	(-40) to 125deg	CY7C199-15ZC	N/A	12896 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	500	46	0	

QUARTERLY RELIABILITY DATA  
CYPRESS SEMICONDUCTOR CORPORATION  
QUARTER: Q295 YEAR: 1995

Test	Test Condition	Device ID	Date Code	Lot Number	Function	Description	Technology	Process	Proc Loc	Pkg Material	Pkg Type	Pkg Loc	# Pin	Duration	Test Fail	Fail Mode
PRODUCT GROUP: SRAM																
TC	(-40) to 125deg	CY7C199-15ZC	N/A	12896 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	1500	46	0
TC	(-40) to 125deg	CY7C199-15ZC	N/A	12897 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	500	47	0
TC	(-40) to 125deg	CY7C199-15ZC	N/A	12897 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	1500	46	0
TC2	(-65) to 150deg	CY7C109A-25VC	9508	349500889	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	SOJ	KOREA-L	32	300	46	0
TC2	(-65) to 150deg	CY7C109A-25VC	9508	349500889	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	SOJ	KOREA-L	32	1000	46	0
TC2	(-65) to 150deg	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	300	48	0
TC2	(-65) to 150deg	CY7C109A-35PC	N/A	3429761	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	1000	48	1
TC2	(-65) to 150deg	CY7C109A-35PC	N/A	3429773	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	300	48	1
TC2	(-65) to 150deg	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	300	48	0
TC2	(-65) to 150deg	CY7C109A-35PC	N/A	3430896	SRAM	128K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	KOREA-A	32	1000	48	0
TC2	(-65) to 150deg	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	300	50	0



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TC2	(-65) to 150deg	CY7C185-35SC	N/A	2444364	SRAM	8K x 8	SRAM/LOGIC-R21	CMOS	TX	Plastic	SOIC	KOREA-A	28	1000	50	0
TC2	(-65) to 150deg	CY7C199-12PC	9501	349416480	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	300	45	0
TC2	(-65) to 150deg	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	300	45	0
TC2	(-65) to 150deg	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	300	45	0
TC2	(-65) to 150deg	CY7C199-12PC	9501	349416521	SRAM	32K x 8	SRAM/LOGIC-R25	CMOS	MN	Plastic	PDIP	INDNS-O	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	300	45	0
TC2	(-65) to 150deg	CY7C199-15PC	N/A	12259 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-15PC	N/A	12265 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	300	45	0
TC2	(-65) to 150deg	CY7C199-15PC	N/A	12265 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	PDIP	KOREA-A	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-15VC	9512	13023 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	300	45	0
TC2	(-65) to 150deg	CY7C199-15VC	9512	13023 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-15VC	9512	13025 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	300	45	0
TC2	(-65) to 150deg	CY7C199-15VC	9512	13025 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	300	50	0
TC2	(-65) to 150deg	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	300	50	0
TC2	(-65) to 150deg	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	1000	50	0
TC2	(-65) to 150deg	CY7C199-15VC	9520	13024 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	SOJ	ALPHA-X	28	1000	50	0
TC2	(-65) to 150deg	CY7C199-15ZC	N/A	12896 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	300	47	0
TC2	(-65) to 150deg	CY7C199-15ZC	N/A	12897 (SWR)	SRAM	32K x 8	SRAM/LOGIC-R28	CMOS	MN	Plastic	TSOP	KOREA-H	32	300	47	0
TC2	(-65) to 150deg	CY7C199-45PC	N/A	12263	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	300	45	0
TC2	(-65) to 150deg	CY7C199-45PC	N/A	12263	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-45PC	N/A	12264	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	300	45	0
TC2	(-65) to 150deg	CY7C199-45PC	N/A	12264	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	MN	Plastic	PDIP	KOREA-A	28	1000	45	0
TC2	(-65) to 150deg	CY7C199-45VC	9509	219501636	SRAM	32K x 8	SRAM/LOGIC-R21H	CMOS	TX	Plastic	SOJ	ALPHA-X	28	300	79	0