

**TTL STANDARD
COMPONENTS LIBRARY**
Packaged Parts

February 1986

p-cad[®]
PERSONAL CAD SYSTEMS INC.

000-0089-01

COPYRIGHT

Copyright (c) 1986 by Personal CAD Systems, Inc. (P-CAD).

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Personal CAD Systems, Inc.

Personal CAD Systems, Inc. provides this manual "as is" without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. P-CAD may make improvements and/or changes in the product(s) and/or the program(s) described in this manual at any time and without notice.

Although P-CAD has gone to great effort to verify the integrity of the information herein, this publication could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in new editions of this publication.

TRADEMARK

P-CAD, PC-CAPS, PC-CARDS, PC-LOGS, PC-BACK, PC-DRC/NLC, PC-DRILL, PC-FORM, PC-HISTO, PC-LINK, PC-MODEL, PC-NODES, PC-PACK, PC-PHOTO, PC-PLOTS, PC-PRINT, PC-ROUTE, POSTSIM, PREPACK, and PRESIM are trademarks of Personal CAD Systems, Inc. (P-CAD).

CONTENTS

OVERVIEW	1
FILE MANAGEMENT	1
CREATING A DESIGN	2
Layer Structure	2
Drawing Sheets	4
Components	4
GENERAL INFORMATION.....	4
NAMING CONVENTIONS	5
COMPONENT LIST BY SEQUENCE	6
COMPONENT LIST BY FUNCTION	24
COMPONENT PLOTS	53
GERBER PLOTTER APERTURE CHART	80



OVERVIEW

This manual and the twelve TTL Components Packaged Parts Diskettes comprise the P-CAD TTL Components Packaged Parts Library. The library has been developed at the request of our users, and we welcome any suggestions for improvements or additions.

The library diskettes contain the following files for use with the PC-CARDS printed circuit board (PCB) layout program:

- Component files
- Layer structure file, LAYS.PCB
- Standard-size drawing sheet files, ASIZE.PCB through ESIZE.PCB
- 7400.FIL and 7400.LIB files

The 7400.FIL file is a sample text file for input into PREPACK to create the binary file 7400.LIB for packaging information for PC-PACK. 7400.FIL and 7400.LIB contain all the components in the TTL Library. Normal usage is to extract only those components used in a design and put them in a new .FIL file for input to PREPACK.

- Padstacks and special symbol file (<filename>.PS and <filename>.SSF)

The padstacks and special symbol files are samples of what can be used in the PC-CARDS environment. Refer to the PC-CARDS User's Manual for more information on how to use padstacks and special symbol files.

FILE MANAGEMENT

The complete TTL Parts Library includes more than 3.7 MB of files. If you are loading the library on the hard disk of your stand-alone computer, you should omit any of the technologies that you will not need to conserve disk space. This is especially important if you are using a 10 MB hard disk. To make it easy for you to omit the technologies you do not need, they are supplied on separate floppy disks.

If your hard disk space is very limited, you may remove individual unneeded parts from the library. Each part is contained in a separate DOS file, and individual parts may be erased using the DOS erase command. Refer to your Disk Operating System (DOS) manual or the "DOS Reference" chapter in your PC-CAPS or PC-CARDS User's Manuals for instructions on listing and erasing files.

P-CAD recommends a specific directory structure for efficient system operation. Your library parts are normally placed in a specific subdirectory to make it easy to manage these files. The directory structure is described in your P-CAD Installation Guide.

CREATING A DESIGN

To use the library in a design, run PC-CARDS. Instructions are given in the "Using PC-CARDS" chapter of your PC-CARDS User's Manual. When the menu is displayed, select FILE/LOAD and load the layer structure. You can load LAYS.PCB or one of the standard-size drawing sheet files, ASIZE.PCB through ESIZE.PCB.

Layer Structure

The following layer structure, LAYS.PCB, is a standard P-CAD layer structure and is recommended when creating library components.

Layer	Name	Pen	Status	Use
1	PADCOM	4	ON	Graphic component pads
2	FLCOMP	4	OFF	Flash component pads
3	PADSLD	8	OFF	Graphic solder pads
4	FLSOLD	8	OFF	Flash solder pads
5	PADINT	9	OFF	Graphic internal pads

Layer	Name	Pen	Status	Use
6	FLINT	9	OFF	Flash internal pads
7	GNDCON	10	OFF	Graphic internal ground connections
8	FLGCON	10	OFF	Flash internal ground connections
9	CLEAR	7	OFF	Graphic universal clearance
10	FLCLER	7	OFF	Flash universal clearance
11	PWRCON	13	OFF	Graphic internal power connections
12	FLPCON	13	OFF	Flash internal power connections
13	SLDMSK	14	OFF	Graphic solder mask relief
14	FLSMSK	14	OFF	Flash solder mask
15	DRILL	15	OFF	Graphic drill template
16	FLDRLL	15	OFF	Flash drill template
17	PIN	4	ON	Graphic pin connections
18	BRDOUT	12	ON	Board outline
19	FLTARG	11	OFF	Flash alignment targets

Layer	Name	Pen	Status	Use
20	SLKSCR	6	ON	Silkscreen paint
21	DEVICE	5	ON	Device names
22	ATTR	6	OFF	Attributes
23	REFDES	6	ON	Reference designators
24	COMP	1	ABL	Component side traces
25	SOLDER	2	ABL	Solder side traces
26	INT1	3	OFF	Internal layer traces

Drawing Sheets

The standard-size drawing sheet files, ASIZE.PCB through ESIZE.PCB, were created using the LAYS.PCB layer structure. When loaded, they provide the correct layer structure for the library plus a standard-size drawing sheet border.

Components

When you have loaded the layer structure or drawing sheet file, you can enter the components, wires, text, instances, and net names. Complete instructions are given in the tutorial section of your PC-CARDS User's Manual. Each PC-CARDS component contains the electrical "intelligence" required to extract data and lay out a printed circuit board.

GENERAL INFORMATION

This library is comprised of parts from six technologies:

1. Standard
2. Advanced Low Power Schottky (ALS)
3. Advanced Schottky (AS)
4. Fairchild's Advanced Schottky TTL (FAST)
5. Low Power Schottky (LS)
6. Schottky (S)

This library was created using the Texas Instruments Inc. TTL data books, volumes one, two, and three, for most of the components. The Fairchild Semiconductor FAST data book was used to create the 74Fnnn components.

Due to system limitations regarding filename length, the filenames used for the ALS components are shortened versions of the component names. For example, 74ALS112A is named ALS112A.PRT.

NAMING CONVENTIONS

In this library, signal names may be different from those in the data books. An abbreviated form of the name may have been entered as the actual signal name. For example the signal name, READY, may have been entered as RDY.

Throughout this library the following signal naming conventions are used.

- (a) The CLOCK signal was abbreviated as CP.
- (b) The / sign was replaced by a -.
- (c) The > sign was replaced by .GT.
- (d) The = sign was replaced by .EQ.
- (e) The < sign was replaced by .LT.

COMPONENT LIST BY SEQUENCE

The component filename is the component number plus the extension .PRT; for example 74LS490.PRT. The "Plot Number" refers to the plots in the last section of this manual.

	DISK NUMBER	PLOT NUMBER
7400	1	1
7401	1	1
7402	1	1
7403	1	1
7404	1	1
7405	1	1
7406	1	1
7407	1	1
7408	1	1
7409	1	1
7410	1	1
7412	1	1
7413	1	1
7414	1	1
7416	1	1
7417	1	1
7420	1	1
7422	1	1
7425	1	1
7426	1	1
7427	1	1
7428	1	1
7430	1	1
7432	1	1
7433	1	1
7437	1	1
7438	1	1
7439	1	1
7440	1	1
7442A	1	1
7443A	1	1
7444A	1	1
7445	1	1
7446A	1	1
7447A	1	1
7448	1	1
7449	1	1
7451	1	1
7454	1	1
7470	1	1
7472	1	1
7473	1	1

	DISK NUMBER	PLOT NUMBER
7474	1	1
7475	1	1
7476	1	1
7480	1	1
7482	1	1
7483A	1	1
7485	1	2
7486	1	2
7490A	1	2
7491A	1	2
7492A	1	2
7493A	1	2
7494	1	2
7495A	1	2
7496	1	2
7497	1	2
74100	1	2
74104	1	2
74105	1	2
74107	1	2
74109	1	2
74110	1	2
74111	1	2
74116	1	2
74120	1	2
74121	1	2
74122	1	2
74123	1	2
74125	1	2
74126	1	2
74128	1	2
74132	1	2
74136	1	2
74141	1	2
74142	1	2
74143	1	2
74144	1	2
74145	1	2
74147	1	2
74148	1	3
74150	1	3
74151A	1	3
74153	1	3
74154	1	3
74155	2	3
74156	2	3
74157	2	3

	DISK NUMBER	PLOT NUMBER
74159	2	3
74160	2	3
74161	2	3
74162	2	3
74163	2	3
74164	2	3
74165	2	3
74166	2	3
74167	2	3
74170	2	3
74172	2	3
74173	2	3
74174	2	3
74175	2	3
74176	2	3
74177	2	3
74178	2	3
74179	2	3
74180	2	3
74181	2	3
74182	2	3
74184	2	3
74185A	2	3
74190	2	3
74191	2	4
74192	2	4
74193	2	4
74194	2	4
74195	2	4
74196	2	4
74197	2	4
74198	2	4
74199	2	4
74221	2	4
74246	2	4
74247	2	4
74248	2	4
74249	2	4
74251	2	4
74259	2	4
74265	2	4
74273	2	4
74276	2	4
74278	2	4
74279	2	4
74283	2	4
74285	2	4

	DISK NUMBER	PLOT NUMBER
74290	2	4
74293	2	4
74298	2	4
74351	2	4
74365A	2	4
74366A	2	4
74367A	2	4
74368A	2	4
74376	2	4
74390	2	4
74393	2	4
74425	2	4
74426	2	4
74490	2	4
74ALS00A	3	ALS1
74ALS01	3	ALS1
74ALS02	3	ALS1
74ALS03A	3	ALS1
74ALS04A	3	ALS1
74ALS05A	3	ALS1
74ALS08	3	ALS1
74ALS09	3	ALS1
74ALS10	3	ALS1
74ALS11	3	ALS1
74ALS12	3	ALS1
74ALS15	3	ALS1
74ALS20A	3	ALS1
74ALS21	3	ALS1
74ALS22A	3	ALS1
74ALS27	3	ALS1
74ALS28A	3	ALS1
74ALS30	3	ALS1
74ALS32	3	ALS1
74ALS33A	3	ALS1
74ALS34	3	ALS1
74ALS35	3	ALS1
74ALS37A	3	ALS1
74ALS38A	3	ALS1
74ALS40A	3	ALS1
74ALS74	3	ALS1
74ALS86	3	ALS1
74ALS109	3	ALS1
74ALS112A	3	ALS1
74ALS113A	3	ALS1
74ALS114A	3	ALS1
74ALS131	3	ALS1
74ALS133	3	ALS1

	DISK NUMBER	PLOT NUMBER
74ALS137	3	ALS1
74ALS138	3	ALS1
74ALS139	3	ALS1
74ALS151	3	ALS1
74ALS153	3	ALS1
74ALS157	3	ALS1
74ALS158	3	ALS1
74ALS160A	3	ALS1
74ALS161A	3	ALS1
74ALS162A	3	ALS1
74ALS163A	3	ALS1
74ALS164	3	ALS1
74ALS165	3	ALS1
74ALS166	3	ALS1
74ALS168A	3	ALS1
74ALS169A	3	ALS2
74ALS174	3	ALS2
74ALS175	3	ALS2
74ALS190	3	ALS2
74ALS191	3	ALS2
74ALS192	3	ALS2
74ALS193	3	ALS2
74ALS240A	3	ALS2
74ALS241A	3	ALS2
74ALS242A	3	ALS2
74ALS243A	3	ALS2
74ALS244A	3	ALS2
74ALS245A	3	ALS2
74ALS251	3	ALS2
74ALS253	3	ALS2
74ALS257B	3	ALS2
74ALS258	3	ALS2
74ALS259	3	ALS2
74ALS273	3	ALS2
74ALS299	3	ALS2
74ALS323	3	ALS2
74ALS352	3	ALS2
74ALS353	3	ALS2
74ALS365	3	ALS2
74ALS366	3	ALS2
74ALS367	3	ALS2
74ALS368	3	ALS2
74ALS373	3	ALS2
74ALS374	3	ALS2
74ALS465A	3	ALS2
74ALS466A	3	ALS2
74ALS467A	3	ALS2

	DISK NUMBER	PLOT NUMBER
74ALS468A	3	ALS2
74ALS518	3	ALS2
74ALS519	3	ALS2
74ALS520	3	ALS2
74ALS521	3	ALS3
74ALS522	3	ALS3
74ALS526	3	ALS3
74ALS527	4	ALS3
74ALS528	4	ALS3
74ALS533	4	ALS3
74ALS534	4	ALS3
74ALS538	4	ALS3
74ALS539	4	ALS3
74ALS540	4	ALS3
74ALS541	4	ALS3
74ALS560A	4	ALS3
74ALS561A	4	ALS3
74ALS563	4	ALS3
74ALS564	4	ALS3
74ALS568A	4	ALS3
74ALS569A	4	ALS3
74ALS573	4	ALS3
74ALS574	4	ALS3
74ALS575	4	ALS3
74ALS576	4	ALS3
74ALS577	4	ALS3
74ALS580	4	ALS3
74ALS620A	4	ALS3
74ALS621A	4	ALS3
74ALS622A	4	ALS3
74ALS623A	4	ALS3
74ALS638	4	ALS3
74ALS639	4	ALS3
74ALS640A	4	ALS3
74ALS641A	4	ALS3
74ALS642A	4	ALS3
74ALS643A	4	ALS3
74ALS644A	4	ALS3
74ALS645A	4	ALS3
74ALS646	4	ALS4
74ALS647	4	ALS4
74ALS648	4	ALS4
74ALS649	4	ALS4
74ALS651	4	ALS4
74ALS652	4	ALS4
74ALS653	4	ALS4
74ALS654	4	ALS4

	DISK NUMBER	PLOT NUMBER
74ALS688	4	ALS4
74ALS689	4	ALS4
74ALS804	4	ALS4
74ALS805	4	ALS4
74ALS808	4	ALS4
74ALS832	4	ALS4
74ALS841	4	ALS4
74ALS842	4	ALS4
74ALS843	4	ALS4
74ALS844	4	ALS4
74ALS845	4	ALS4
74ALS846	4	ALS4
74ALS857	4	ALS4
74ALS873	4	ALS4
74ALS874	4	ALS4
74ALS876	4	ALS4
74ALS878	4	ALS4
74ALS879	4	ALS4
74ALS880	4	ALS4
74AS00	5	AS1
74AS02	5	AS1
74AS04	5	AS1
74AS08	5	AS1
74AS10	5	AS1
74AS11	5	AS1
74AS20	5	AS1
74AS21	5	AS1
74AS27	5	AS1
74AS30	5	AS1
74AS32	5	AS1
74AS34	5	AS1
74AS74	5	AS1
74AS95	5	AS1
74AS109	5	AS1
74AS112	5	AS1
74AS113	5	AS1
74AS114	5	AS1
74AS131	5	AS1
74AS137	5	AS1
74AS138	5	AS1
74AS139	5	AS1
74AS151	5	AS1
74AS153	5	AS1
74AS157	5	AS1
74AS158	5	AS1
74AS160	5	AS1
74AS161	5	AS1

	DISK NUMBER	PLOT NUMBER
74AS162	5	AS1
74AS163	5	AS1
74AS168	5	AS1
74AS169	5	AS1
74AS174	5	AS1
74AS175	5	AS1
74AS181A	5	AS1
74AS182	5	AS1
74AS194	5	AS1
74AS195	5	AS1
74AS230	5	AS1
74AS231	5	AS1
74AS240	5	AS1
74AS241	5	AS1
74AS242	5	AS1
74AS243	5	AS1
74AS244	5	AS1
74AS245	5	AS1
74AS250	5	AS2
74AS251	5	AS2
74AS253	5	AS2
74AS257	5	AS2
74AS258	5	AS2
74AS264	5	AS2
74AS280	5	AS2
74AS282	5	AS2
74AS286	5	AS2
74AS298	5	AS2
74AS299	5	AS2
74AS323	5	AS2
74AS352	5	AS2
74AS353	5	AS2
74AS373	5	AS2
74AS374	5	AS2
74AS395	5	AS2
74AS533	5	AS2
74AS534	5	AS2
74AS573	5	AS2
74AS574	5	AS2
74AS575	5	AS2
74AS576	5	AS2
74AS577	5	AS2
74AS580	5	AS2
74AS620	5	AS2
74AS621	5	AS2
74AS622	5	AS2
74AS623	6	AS2

	DISK NUMBER	PLOT NUMBER
74AS638	6	AS2
74AS639	6	AS2
74AS640	6	AS2
74AS641	6	AS2
74AS642	6	AS3
74AS643	6	AS3
74AS644	6	AS3
74AS645	6	AS3
74AS646	6	AS3
74AS648	6	AS3
74AS651	6	AS3
74AS652	6	AS3
74AS756	6	AS3
74AS757	6	AS3
74AS758	6	AS3
74AS759	6	AS3
74AS760	6	AS3
74AS762	6	AS3
74AS763	6	AS3
74AS800	6	AS3
74AS802	6	AS3
74AS804A	6	AS3
74AS805A	6	AS3
74AS808A	6	AS3
74AS821	6	AS3
74AS822	6	AS3
74AS823	6	AS3
74AS824	6	AS3
74AS825	6	AS3
74AS826	6	AS3
74AS832A	6	AS3
74AS841	6	AS3
74AS842	6	AS3
74AS843	6	AS4
74AS844	6	AS4
74AS845	6	AS4
74AS846	6	AS4
74AS850	6	AS4
74AS851	6	AS4
74AS857	6	AS4
74AS866	6	AS4
74AS867	6	AS4
74AS869	6	AS4
74AS870	6	AS4
74AS871	6	AS4
74AS873	6	AS4
74AS874	6	AS4

	DISK NUMBER	PLOT NUMBER
74AS876	6	AS4
74AS878	6	AS4
74AS879	6	AS4
74AS880	6	AS4
74AS881A	6	AS4
74AS882	6	AS4
74AS885	6	AS4
74F00	7	F1
74F02	7	F1
74F04	7	F1
74F08	7	F1
74F10	7	F1
74F11	7	F1
74F13	7	F1
74F14	7	F1
74F20	7	F1
74F32	7	F1
74F37	7	F1
74F38	7	F1
74F40	7	F1
74F64	7	F1
74F74	7	F1
74F85	7	F1
74F86	7	F1
74F109	7	F1
74F112	7	F1
74F113	7	F1
74F114	7	F1
74F132	7	F1
74F138	7	F1
74F139	7	F1
74F148	7	F1
74F151A	7	F1
74F153	7	F1
74F157A	7	F1
74F158A	7	F1
74F160A	7	F1
74F161A	7	F1
74F162A	7	F1
74F163A	7	F1
74F164	7	F1
74F168	7	F1
74F169	7	F1
74F174	7	F1
74F175	7	F1
74F181	7	F1
74F182	7	F1

	DISK NUMBER	PLOT NUMBER
74F190	7	F1
74F191	7	F1
74F192	7	F1
74F193	7	F1
74F194	7	F1
74F195	7	F1
74F240	7	F1
74F241	7	F2
74F242	7	F2
74F243	7	F2
74F244	7	F2
74F245	7	F2
74F251A	7	F2
74F253	7	F2
74F256	7	F2
74F257	7	F2
74F258	7	F2
74F259	7	F2
74F269	7	F2
74F273	7	F2
74F280	7	F2
74F283	7	F2
74F298	7	F2
74F299	7	F2
74F322	7	F2
74F323	7	F2
74F350	7	F2
74F352	7	F2
74F353	7	F2
74F365	7	F2
74F366	7	F2
74F367	7	F2
74F368	7	F2
74F373	7	F2
74F374	7	F2
74F377	7	F2
74F378	7	F2
74F379	7	F2
74F381	7	F2
74F382	7	F2
74F384	7	F2
74F385	7	F3
74F395	7	F3
74F398	7	F3
74F399	7	F3
74F401	8	F3
74F402	8	F3

	DISK NUMBER	PLOT NUMBER
74F403	8	F3
74F407	8	F3
74F410	8	F3
74F411	8	F3
74F413	8	F3
74F418	8	F3
74F420	8	F3
74F432	8	F3
74F433	8	F3
74F505	8	F3
74F521	8	F3
74F524	8	F3
74F525	8	F3
74F533	8	F4
74F534	8	F4
74F537	8	F4
74F538	8	F4
74F539	8	F4
74F540	8	F4
74F541	8	F4
74F543	8	F4
74F544	8	F4
74F545	8	F4
74F547	8	F4
74F548	8	F4
74F550	8	F4
74F551	8	F4
74F563	8	F4
74F564	8	F4
74F568	8	F4
74F569	8	F4
74F573	8	F4
74F574	8	F4
74F579	8	F4
74F582	8	F4
74F583	8	F4
74F588	8	F4
74F604	8	F4
74F610	8	F5
74F612	8	F5
74F620	8	F5
74F623	8	F5
74F630	8	F5
74F632	8	F5
74F646	8	F5
74F648	8	F5
74F655	8	F5

	DISK NUMBER	PLOT NUMBER
74F656	8	F5
74F657	8	F5
74F673A	8	F5
74F674	8	F5
74F675A	8	F5
74F676	8	F5
74F779	8	F5
74F784	8	F5
74F821	8	F5
74F823	8	F6
74F825	8	F6
74F827	8	F6
74F828	8	F6
74F841	8	F6
74F843	8	F6
74F845	8	F6
74LS00	9	LS1
74LS01	9	LS1
74LS02	9	LS1
74LS03	9	LS1
74LS04	9	LS1
74LS05	9	LS1
74LS08	9	LS1
74LS09	9	LS1
74LS10	9	LS1
74LS11	9	LS1
74LS12	9	LS1
74LS13	9	LS1
74LS14	9	LS1
74LS15	9	LS1
74LS18	9	LS1
74LS19	9	LS1
74LS20	9	LS1
74LS21	9	LS1
74LS22	9	LS1
74LS24	9	LS1
74LS26	9	LS1
74LS27	9	LS1
74LS28	9	LS1
74LS30	9	LS1
74LS32	9	LS1
74LS33	9	LS1
74LS37	9	LS1
74LS38	9	LS1
74LS40	9	LS1
74LS42	9	LS1
74LS47	9	LS1

	DISK NUMBER	PLOT NUMBER
74LS48	9	LS1
74LS49	9	LS1
74LS51	9	LS1
74LS54	9	LS1
74LS55	9	LS1
74LS56	9	LS1
74LS57	9	LS1
74LS68	9	LS1
74LS69	9	LS1
74LS73A	9	LS1
74LS74A	9	LS1
74LS75	9	LS1
74LS76A	9	LS1
74LS78A	9	LS1
74LS83A	9	LS1
74LS85	9	LS1
74LS86	9	LS1
74LS90	9	LS2
74LS91	9	LS2
74LS92	9	LS2
74LS93	9	LS2
74LS95B	9	LS2
74LS96	9	LS2
74LS107	9	LS2
74LS109A	9	LS2
74LS112A	9	LS2
74LS113A	9	LS2
74LS114A	9	LS2
74LS122	9	LS2
74LS123	9	LS2
74LS125A	9	LS2
74LS126A	9	LS2
74LS132	9	LS2
74LS136	9	LS2
74LS137	9	LS2
74LS138	9	LS2
74LS139	9	LS2
74LS145	9	LS2
74LS147	9	LS2
74LS148	9	LS2
74LS151	9	LS2
74LS153	9	LS2
74LS155A	9	LS2
74LS156	9	LS2
74LS157	9	LS2
74LS158	9	LS2
74LS160A	9	LS2

	DISK NUMBER	PLOT NUMBER
74LS161A	9	LS2
74LS162A	9	LS2
74LS163A	9	LS2
74LS164	9	LS2
74LS165	9	LS2
74LS166A	9	LS2
74LS169B	9	LS2
74LS170	9	LS2
74LS171	10	LS2
74LS173A	10	LS2
73LS174	10	LS2
74LS175	10	LS2
74LS181	10	LS2
74LS183	10	LS2
74LS190	10	LS2
74LS191	10	LS2
74LS192	10	LS2
74LS193	10	LS3
74LS194A	10	LS3
74LS195A	10	LS3
74LS196	10	LS3
74LS197	10	LS3
74LS221	10	LS3
74LS240	10	LS3
74LS241A	10	LS3
74LS242	10	LS3
74LS243	10	LS3
74LS244	10	LS3
74LS245	10	LS3
74LS247	10	LS3
74LS248	10	LS3
74LS249	10	LS3
74LS251	10	LS3
74LS253	10	LS3
74LS257B	10	LS3
74LS258B	10	LS3
74LS259	10	LS3
74LS261	10	LS3
74LS266	10	LS3
74LS273	10	LS3
74LS279A	10	LS3
74LS280	10	LS3
74LS283	10	LS3
74LS290	10	LS3
74LS292	10	LS3
74LS293	10	LS3
74LS294	10	LS3

	DISK NUMBER	PLOT NUMBER
74LS295B	10	LS3
74LS298	10	LS3
74LS299	10	LS3
74LS321	10	LS3
74LS322A	10	LS3
74LS323	10	LS3
74LS347	10	LS4
74LS348	10	LS4
74LS352	10	LS4
74LS353	10	LS4
74LS354	10	LS4
74LS355	10	LS4
74LS356	10	LS4
74LS357	10	LS4
74LS363	10	LS4
74LS364	10	LS4
74LS365A	10	LS4
74LS366A	10	LS4
74LS367A	10	LS4
74LS368A	10	LS4
74LS373	10	LS4
74LS374	10	LS4
74LS375	10	LS4
74LS377	10	LS4
74LS378	10	LS4
74LS379	10	LS4
74LS381	10	LS4
74LS382	10	LS4
74LS384	10	LS4
74LS385	10	LS4
74LS386	10	LS4
74LS390	10	LS4
74LS393	10	LS4
74LS395A	10	LS4
74LS396	10	LS4
74LS398	10	LS4
74LS399	10	LS4
74LS422	10	LS4
74LS423	10	LS4
74LS440	10	LS4
74LS441	10	LS4
74LS442	10	LS4
74LS443	10	LS5
74LS444	10	LS5
74LS445	10	LS5
74LS446	10	LS5
74LS447	10	LS5

	DISK NUMBER	PLOT NUMBER
74LS448	11	LS5
74LS449	11	LS5
74LS465	11	LS5
74LS466	11	LS5
74LS467	11	LS5
74LS468	11	LS5
74LS490	11	LS5
74LS540	11	LS5
74LS541	11	LS5
74LS590	11	LS5
74LS591	11	LS5
74LS592	11	LS5
74LS593	11	LS5
74LS594	11	LS5
74LS595	11	LS5
74LS596	11	LS5
74LS597	11	LS5
74LS598	11	LS5
74LS599	11	LS5
74LS600A	11	LS5
74LS602A	11	LS5
74LS603A	11	LS5
74LS604	11	LS5
74LS605	11	LS5
74LS606	11	LS5
74LS607	11	LS5
74LS608	11	LS5
74LS610	11	LS5
74LS611	11	LS6
74LS612	11	LS6
74LS613	11	LS6
74LS621	11	LS6
74LS622	11	LS6
74LS623	11	LS6
74LS624	11	LS6
74LS625	11	LS6
74LS626	11	LS6
74LS627	11	LS6
74LS628	11	LS6
74LS629	11	LS6
74LS630	11	LS6
74LS631	11	LS6
74LS636	11	LS6
74LS637	11	LS6
74LS638	11	LS6
74LS639	11	LS6
74LS640	11	LS6

	DISK NUMBER	PLOT NUMBER	
	74LS641	11	LS6
	74LS642	11	LS6
	74LS643	11	LS6
	74LS644	11	LS6
	74LS645	11	LS6
	74LS646	11	LS6
	74LS647	11	LS6
	74LS648	11	LS6
	74LS649	11	LS6
	74LS651	11	LS6
	74LS652	11	LS7
	74LS653	11	LS7
	74LS654	11	LS7
	74LS668	11	LS7
	74LS669	11	LS7
	74LS670	11	LS7
	74LS671	11	LS7
	74LS672	11	LS7
	74LS673	11	LS7
	74LS674	11	LS7
	74LS681	11	LS7
	74LS682	11	LS7
	74LS683	11	LS7
	74LS684	11	LS7
	74LS685	11	LS7
	74LS686	11	LS7
	74LS687	11	LS7
	74LS688	11	LS7
	74LS689	11	LS7
	74LS690	11	LS7
	74LS691	11	LS7
	74LS692	11	LS7
	74LS693	11	LS7
	74LS696	11	LS7
	74LS697	11	LS7
	74LS698	11	LS7
	74LS699	11	LS7
	74S00	12	S1
	74S02	12	S1
	74S03	12	S1
	74S04	12	S1
	74S05	12	S1
	74S08	12	S1
	74S09	12	S1
	74S10	12	S1
	74S11	12	S1
	74S15	12	S1

	DISK NUMBER	PLOT NUMBER
74S20	12	S1
74S22	12	S1
74S30	12	S1
74S32	12	S1
74S37	12	S1
74S38	12	S1
74S40	12	S1
74S51	12	S1
74S64	12	S1
74S65	12	S1
74S74	12	S1
74S85	12	S1
74S86	12	S1
74S112	12	S1
74S113	12	S1
74S114	12	S1
74S124	12	S1
74S132	12	S1
74S133	12	S1
74S134	12	S1
74S135	12	S1
74S138	12	S1
74S139	12	S1
74S140	12	S1
74S151	12	S1
74S153	12	S1
74S157	12	S1
74S158	12	S1
74S162	12	S1
74S163	12	S1
74S168	12	S1
74S169	12	S1
74S174	12	S1
74S175	12	S1
74S181	12	S1
74S182	12	S1
74S194	12	S1
74S195	12	S2
74S196	12	S2
74S197	12	S2
74S226	12	S2
74S240	12	S2
74S241	12	S2
74S244	12	S2
74S251	12	S2
74S253	12	S2
74S257	12	S2

	DISK NUMBER	PLOT NUMBER
74S258	12	S2
74S260	12	S2
74S268	12	S2
74S274	12	S2
74S280	12	S2
74S281	12	S2
74S283	12	S2
74S299	12	S2
74S350	12	S2
74S373	12	S2
74S374	12	S2
74S381	12	S2
74S428	12	S2
74S436	12	S2
74S437	12	S2
74S484A	12	S2
74S485A	12	S2

COMPONENT LIST BY FUNCTION

The component filename is the component number plus the extension .PRT; for example, 74LS490.PRT.

ACCUMULATORS

74LS681 4-bit parallel binary accumulators
 74S281 4-bit parallel binary accumulators

A/D CONVERTERS

74F505 8-bit successive approximation analog-to-digital converter

ADDERS

7480 Gated full adders
 7482 2-bit binary full adders
 7483A 4-bit binary full adders with fast carry
 74182 Look-ahead carry generators
 74283 4-bit binary full adders
 74AS182 Look-ahead carry generators
 74AS264 Look-ahead carry generators

74AS282	Look-ahead carry generator with selectable carry inputs
74AS882	32-bit look-ahead carry generators
74F182	Look-ahead carry generators
74F283	4-bit binary full adder with fast carry
74F385	Quad serial adder/subtractor
74F583	4-bit BCD adder
74LS83A	4-bit binary full adder with fast carry
74LS183	Dual carry-save full adders
74LS283	4-bit binary full adders
74LS385	Quadruple serial adders/subtractors
74S182	Look-ahead carry generators
74S283	4-bit binary full adders

AND/NAND GATES

7400	Quadruple 2-input positive-nand gates
7401	Quadruple 2-input positive-nand gates with open-collector outputs
7403	Quadruple 2-input positive-nand gates with open-collector outputs
7408	Quadruple 2-input positive-and gates
7409	Quadruple 2-input positive-and gates with open-collector outputs
7410	Triple 3-input positive-nand gates
7412	Triple 3-input positive-nand gates with open-collector outputs
7413	Dual 4-input positive-nand Schmitt triggers
7420	Dual 4-input positive-nand gates
7422	Dual 4-input positive-nand gates with open-collector outputs
7426	Quadruple 2-input high-voltage interface positive-nand gates
7430	8-input positive-nand gate
7437	Quadruple 2-input positive-nand buffers
7438	Quadruple 2-input positive-nand buffers with open-collector outputs
7439	Quadruple 2-input positive-nand buffers with open-collector outputs
7440	Dual 4-input positive-nand buffers
74132	Quadruple 2-input positive-nand Schmitt triggers
74265	Quad complementary-output elements
74ALS00A	Quadruple 2-input positive-nand gates
74ALS01	Quadruple 2-input positive-nand gates with open-collector outputs
74ALS03A	Quadruple 2-input positive-nand gates with open-collector outputs

74ALS08	Quadruple 2-input positive-and gates
74ALS09	Quadruple 2-input positive-and gates with open-collector outputs
74ALS10	Triple 3-input positive-nand gates
74ALS11	Triple 3-input positive-and gates
74ALS12	Triple 3-input positive-nand gates with open-collector outputs
74ALS15	Triple 3-input positive-and gates with open-collector outputs
74ALS20A	Dual 4-input positive-nand gates
74ALS21	Dual 4-input positive-and gates
74ALS22A	Dual 4-input positive-nand gates with open-collector outputs
74ALS30	8-input positive-nand gates
74ALS37A	Quadruple 2-input positive-nand buffers
74ALS38A	Quadruple 2-input positive-nand buffers with open-collector outputs
74ALS40A	Dual 4-input positive nand buffers
74ALS133	13-input positive-nand gate
74ALS804	Hex 2-input nand drivers
74ALS808	Hex 2-input and drivers
74AS00	Quadruple 2-input positive-nand gates
74AS08	Quadruple 2-input positive-and gates
74AS10	Triple 3-input positive-nand gates
74AS11	Triple 3-input positive-and gates
74AS20	Dual 4-input positive-nand gates
74AS21	Dual 4-input positive-and gates
74AS30	8-input positive-nand gates
74AS800	Triple 4-input and/nand drivers
74AS802	Triple 4-input or/nor line drivers
74AS804A	Hex 2-input or/nor line drivers
74AS808A	Hex 2-input and drivers
74F00	Quad 2-input positive-nand gates
74F08	Quad 2-input positive-and gates
74F10	Triple 3-input positive-nand gates
74F11	Triple 3-input positive-and gates
74F13	Dual 4-input positive-nand Schmitt triggers
74F20	Dual 4-input positive-nand gates
74F37	Quad 2-input positive-nand buffers
74F38	Quad 2-input positive-nand buffers with open-collector outputs
74F40	Dual 4-input positive-nand buffers
74F132	Quad 2-input positive-nand Schmitt triggers
74LS00	Quadruple 2-input positive-nand gates
74LS01	Quadruple 2-input positive-nand gates with open-collector outputs
74LS03	Quadruple 2-input positive-nand gates with open-collector outputs
74LS08	Quadruple 2-input positive-and gates

74LS09	Quadruple 2-input positive-and gates with open-collector outputs
74LS10	Triple 3-input positive-nand gates
74LS11	Triple 3-input positive-and gates
74LS12	Triple 3-input positive-nand gates with open-collector outputs
74LS13	Dual 4-input positive-nand Schmitt triggers
74LS15	Triple 3-input positive-and gates with open-collector outputs
74LS18	Schmitt-trigger positive-nand gates with totem-pole outputs
74LS20	Dual 4-input positive-nand gates
74LS21	Dual 4-input positive-and gates
74LS22	Dual 4-input positive-nand gates with open-collector outputs
74LS24	Schmitt-trigger positive-nand gates/inverters with totem-pole outputs
74LS26	Quadruple 2-input high-voltage interface positive-nand gates
74LS30	8-input positive-nand gates
74LS37	Quadruple 2-input positive-nand buffers
74LS38	Quadruple 2-input positive-nand buffers with open-collector outputs
74LS40	Dual 4-input positive-nand buffers
74LS132	Quadruple 2-input positive-nand Schmitt triggers
74S00	Quadruple 2-input positive-nand gates
74S03	Quadruple 2-input positive-nand gates with open-collector outputs
74S08	Quadruple 2-input positive-and gates
74S09	Quadruple 2-input positive-and gates with open-collector outputs
74S10	Triple 3-input positive-nand gates
74S11	Triple 3-input positive-and gates
74S15	Triple 3-input positive-and gates with open-collector outputs
74S20	Dual 4-input positive-nand gates
74S22	Dual 4-input positive-nand gates with open-collector outputs
74S30	8-input positive-nand gates
74S37	Quadruple 2-input positive-nand buffers
74S38	Quadruple 2-input positive-nand buffers with open-collector outputs
74S40	Dual 4-input positive-nand buffers
74S132	Quadruple 2-input positive-nand Schmitt triggers
74S133	13-input positive-nand gate
74S134	12-input positive-nand gate with 3-state output
74S140	Dual 4-input positive-nand 50-ohm line drivers

AND-OR CIRCUITS

7451	And/or invert gates
7454	4-wide and-or-invert gates
74LS51	And/or invert gates
74LS54	4-wide and-or-invert gates
74LS55	2-wide 4-input and-or-invert gates
74S51	And/or invert gates
74S64	4-2-3-2 input and-or-invert gates
74S65	4-2-3-2 input and-or-invert gates

ARITHMETIC LOGIC UNITS

74181	Arithmetic logic unit/function generator
74AS181A	Arithmetic logic unit/function generator
74AS881A	Arithmetic logic units/function generators
74F181	4-bit arithmetic logic unit
74F381	Arithmetic logic unit/function generator
74F382	4-bit arithmetic logic unit
74F582	4-bit BCD arithmetic logic unit
74LS181	Arithmetic logic unit/function generator
74LS381	Arithmetic logic unit/function generator
74LS382	Arithmetic logic unit/function generator
74S181	Arithmetic logic unit/function generator
74S381	Arithmetic logic unit/function generator

BUFFERS

7407	Hex buffers/drivers with open collector high-voltage outputs
7417	Hex buffers/drivers with open collector high-voltage outputs
7428	Quadruple 2-input positive-nor buffers
7433	Quadruple 2-input positive-nor buffers with open-collector outputs
74125	Quadruple bus buffer gates with 3-state outputs
74126	Quadruple bus buffer gates with 3-state outputs
74425	Quad gates
74426	Quad gates
74ALS28A	Quadruple 2-input positive-nor buffers
74ALS33A	Quadruple 2-input positive-nor buffers with open-collector outputs
74ALS34	Hex noninverters
74ALS35	Hex noninverters with open-collector outputs
74ALS240	Octal buffers/line drivers/line receivers
74ALS241A	Octal buffers/line drivers/line receivers (noninverted tri-state outputs)

74ALS244	Octal buffers/line drivers/line receivers
74ALS465A	Octal buffers with 3-state outputs
74ALS466A	Octal buffers with 3-state outputs
74ALS467A	Octal buffers with 3-state outputs
74ALS468A	Octal buffers with 3-state outputs
74ALS540	Octal buffers and line drivers
74ALS541	Octal buffers and line drivers
74AS34	Hex noninverters
74AS230	Octal buffers and line drivers
74AS231	Octal buffers and line drivers
74AS240	Octal buffers/line drivers/line receivers
74AS241	Octal buffers/line drivers/ line receivers (noninverted tri-state outputs)
74AS244	Octal buffers/line drivers/line receivers (noninverted tri-state outputs)
74AS756	Octal buffers/line drivers/line receivers (with open-collector outputs)
74AS757	Octal buffers/line drivers/line receivers (with open-collector outputs)
74AS760	Octal buffers/line drivers/line receivers (with open-collector outputs)
74AS762	Octal buffers and line drivers
74AS763	Octal buffers and line drivers
74F240	Octal buffers/line driver with 3-state outputs
74F241	Octal buffers/line drivers with 3-state outputs
74F244	Octal buffers/line drivers with 3-state outputs
74F365	Hex buffer/driver with 3-state outputs
74F366	Hex inverter buffer with 3-state outputs
74F367	Hex buffer/driver with 3-state outputs
74F368	Hex inverter buffer with 3-state outputs
74F540	Octal buffer/line driver with 3-state outputs
74F541	Octal buffer/line driver with 3-state outputs
74F655	Octal buffer/line driver with parity with 3-state outputs
74F656	Octal buffer/line driver with parity with 3-state outputs
74F827	10-bit buffers/line drivers
74F828	10-bit buffers/line drivers
74LS28	Quadruple 2-input positive-nor buffers
74LS33	Quadruple 2-input positive-nor buffers with open-collector outputs
74LS125A	Quadruple bus buffer gates with 3-state outputs
74LS126A	Quadruple bus buffer gates with 3-state outputs
74LS240	Octal buffers/line drivers/line receivers
74LS241A	Octal buffers/line drivers/line receivers (noninverted tri-state outputs)
74LS244	Octal buffers/line drivers/line receivers (noninverted tri-state outputs)
74LS465	Octal buffers with 3-state outputs

74LS466	Octal buffers with 3-state outputs
74LS467	Octal buffers with 3-state outputs
74LS468	Octal buffers with 3-state outputs
74LS540	Octal buffers and line drivers
74LS541	Octal buffers and line drivers
74S240	Octal buffers/line drivers/line receivers
74S241	Octal buffers/line drivers/line receivers (noninverted tri-state)
74S244	Octal buffers/line drivers/line receivers (noninverted tri-state outputs)

CODE CONVERTERS

74184	Code converter (BCD to binary)
74185A	Code converter (binary to BCD)
74S484A	BCD-to-binary code converter
74S485A	Binary-to-BCD code converter

COMPARATORS

7485	4-bit magnitude comparator
74ALS518	8-bit identity comparator
74ALS519	8-bit identity comparator
74ALS520	8-bit identity comparator
74ALS521	8-bit identity comparator
74ALS522	8-bit identity comparator
74ALS526	Fuse programmable 16-bit identity comparator
74ALS527	Fuse programmable 8-bit identity comparator and 4-bit comparator
74ALS528	Fuse programmable 12-bit identity comparator
74ALS688	8-bit identity comparator
74ALS689	8-bit identity comparator
74AS866	8-bit magnitude comparator
74AS885	8-bit magnitude comparator
74F85	4-bit magnitude comparator
74F521	8-bit identity comparator
74F524	8-bit registered comparator
74LS85	4-bit magnitude comparator
74LS682	8-bit identity comparator (includes 20-kilohm pull-up resistor on Q inputs)
74LS683	8-bit identity comparator (includes 20-kilohm pull-up resistor on Q inputs)
74LS684	8-bit identity comparator
74LS685	8-bit identity comparator
74LS686	8-bit identity comparator

74LS687	8-bit identity comparator
74LS688	8-bit identity comparator
74LS689	8-bit identity comparator
74S85	4-bit magnitude comparator

CONTROLLERS

74F411	FIFO RAM controller
74S428	System controller for 8080A

COUNTERS

7490A	Decade counter
7492A	Divide-by-12 counter
7493A	4-bit binary counter
74142	Counter/latch/decoder/driver
74143	Counters/latches/decoders/drivers
74144	Counters/latches/decoders/drivers
74160	Synchronous 4-bit counter (decade, direct clear)
74161	Synchronous 4-bit counter (binary, direct clear)
74162	Synchronous 4-bit counter (decade, synchronous clear)
74163	Synchronous 4-bit counter (binary, synchronous clear)
74176	Presettable decade/biquinary counter
74177	Presettable binary counter
74190	Synchronous up/down counter (BCD)
74191	Synchronous up/down counter (binary)
74192	Synchronous up/down dual clock counter (BCD with clear)
74193	Synchronous up/down dual clock counter (binary with clear)
74196	Presettable decade/biquinary counter/latches
74197	Presettable binary counter/latches
74290	Decade counter (divide-by-two and divide-by-five)
74293	4-bit binary counter (divide-by-two and divide-by-eight)
74390	Dual decade counter (bi-quinary or BCD sequences)
74393	Dual 4-bit binary counter
74490	Dual decade counter
74ALS160A	Synchronous 4-bit counter (decade, direct clear)

74ALS161A	Synchronous 4-bit counter (binary, direct clear)
74ALS162A	Synchronous 4-bit counter (decade, synchronous clear)
74ALS163A	Synchronous 4-bit counter (binary, synchronous clear)
74ALS168A	4-bit up/down synchronous counter (decade)
74ALS169A	4-bit up/down synchronous counter (binary)
74ALS190	Synchronous up/down counter (BCD)
74ALS191	Synchronous up/down counter (binary)
74ALS192	Synchronous up/down dual clock counter(BCD with clear)
74ALS193	Synchronous up/down dual clock counter(binary with clear)
74ALS560	Synchronous 4-bit counter
74ALS561	Synchronous 4-bit counter
74ALS568	Synchronous 4-bit up/down counter
74ALS569	Synchronous 4-bit up/down counter
74AS160	Synchronous 4-bit counter (decade, direct clear)
74AS161	Synchronous 4-bit counter (binary, direct clear)
74AS162	Synchronous 4-bit counter (decade, synchronous clear)
74AS163	Synchronous 4-bit counter (binary, synchronous clear)
74AS168	4-bit up/down synchronous counter (decade)
74AS169	4-bit up/down synchronous counter (binary)
74AS867	8-bit synchronous bidirectional counters
74AS869	8-bit synchronous bidirectional counters
74F160A	Synchronous presettable BCD decade counter
74F161A	Synchronous presettable binary counter
74F162A	Synchronous presettable BCD decade counter
74F163A	Synchronous presettable binary counter
74F168	4-stage synchronous bidirectional counter
74F169	4-stage synchronous bidirectional counter
74F190	Up/down decade counter with preset and ripple clock
74F191	Up/down binary counter with preset and ripple clock
74F192	Up/down decade counter with separate up/down clocks
74F193	Up/down binary counter with separate up/down clocks
74F269	8-bit bidirectional binary counter
74F525	Programmable counter
74F568	4-bit bidirectional BCD decade counter with 3-state outputs

74F569	4-bit bidirectional binary counter with 3-state outputs
74F579	8-bit bidirectional binary counter with 3-state outputs
74F779	8-bit bidirectional binary counter with 3-state outputs
74LS68	Dual 4-bit decade counter
74LS69	Dual 4-bit binary counter
74LS90	Decade counter
74LS92	Divide-by-12 counter
74LS93	4-bit binary counter
74LS160A	Synchronous 4-bit counter (decade, direct clear)
74LS161A	Synchronous 4-bit counter (binary, direct clear)
74LS162A	Synchronous 4-bit counter (decade, synchronous clear)
74LS163A	Synchronous 4-bit counter (binary, synchronous clear)
74LS169B	4-bit up/down synchronous counter (binary)
74LS190	Synchronous up/down counter (BCD)
74LS191	Synchronous up/down counter (binary)
74LS192	Synchronous up/down dual clock counter (BCD with clear)
74LS193	Synchronous up/down dual clock counter (binary with clear)
74LS196	Presetable decade/biquinary counter/latches
74LS197	Presetable binary counter/latches
74LS290	Decade counter (divide-by-two and divide-by-five)
74LS293	4-bit binary counter (divide-by-two and divide-by-eight)
74LS390	Dual decade counter (bi-quinary or BCD sequences)
74LS393	Dual 4-bit binary counter
74LS490	Dual decade counter
74LS590	8-bit binary counter with 3-state register outputs
74LS591	8-bit binary counter with open-collector register outputs
74LS592	8-bit binary counter with input registers
74LS593	8-bit binary counter with input registers
74LS668	Synchronous 4-bit up/down counter
74LS669	Synchronous 4-bit up/down counter
74LS690	Synchronous decade counter with output registers
74LS691	Synchronous binary counter with output registers

74LS692	Synchronous decade counter with output registers
74LS693	Synchronous binary counter with output registers
74LS696	Synchronous up/down decade counter with output registers, multiplexed 3-state outputs
74LS697	Synchronous up/down binary counter with output registers, multiplexed 3-state outputs
74LS698	Synchronous up/down decade counter with output registers, multiplexed 3-state outputs
74LS699	Synchronous up/down binary counter with output registers, multiplexed 3-state outputs
74S162	Synchronous 4-bit counter (decade, synchronous clear)
74S163	Synchronous 4-bit counter (binary, synchronous clear)
74S168	4-bit up/down synchronous counter (decade)
74S169	4-bit up/down synchronous counter (binary)
74S196	Presetable decade/biquinary counter/latches
74S197	Presetable binary counter/latches

DECODERS/DRIVERS

7442A	4-line to 10-line decoders (BCD to decimal)
7443A	4-line to 10-line decoders excess-3 to decimal)
7444A	4-line to 10-line decoders (excess 3-gray to decimal)
7445	BCD-to-decimal decoder/driver
7446A	BCD-to-seven-segment decoders/drivers (30 volt outputs)
7447A	BCD-to-seven-segment decoders/drivers (15 volt outputs)
7448	BCD-to-seven-segment decoders/drivers
7449	BCD to seven segment decoders/drivers (open-collector outputs)
74120	Dual pulse synchronizers/drivers
74128	Line drivers (50 Ohm)
74141	BCD-to-decimal decoder/driver
74145	BCD-to-decimal decoders/drivers for lamps, relays, mos
74154	4-line to 16-line decoders/demultiplexers
74155	Decoders/demultiplexers(totem-pole outputs)
74156	Decoders/demultiplexers(open-collector outputs)
74159	4-line to 16-line decoders/ demultiplexers (open-collector outputs)
74246	BCD-to-seven-segment decoders/drivers with ripple blanking (active low, open-collector, 30- volt outputs)

74247	BCD-to-seven-segment decoders/drivers with ripple blanking (active low, open-collector, 15-volt outputs)
74248	BCD-to-seven-segment decoders/drivers (internal pull-up outputs)
74249	BCD-to-seven-segment decoders/drivers (open-collector outputs)
74365A	Hex bus drivers (non-inverted 3-state outputs, gated enable inputs)
74366A	Hex bus drivers (inverted 3-state outputs, gated enable inputs)
74367A	Hex bus drivers (noninverted 3-state outputs organized to facilitate handling of 4-bit data)
74368A	Hex bus drivers (inverted 3-state outputs organized to facilitate handling 4-bit data)
74ALS131	3-to-8-line decoders/demultiplexers with address registers
74ALS137	3-to-8-line decoders/demultiplexers with address latches
74ALS138	3-to-8-line decoders/demultiplexers
74ALS139	Dual 2-to-4-line decoders/demultiplexers
74ALS365	Hex bus drivers (non-inverted 3-state outputs, gated enable inputs)
74ALS366	Hex bus drivers (inverted 3-state outputs, gated enable inputs)
74ALS367	Hex bus drivers (noninverted 3-state outputs organized to facilitate handling 4-bit data)
74ALS368	Hex bus drivers (inverted 3-state outputs organized to facilitate handling 4-bit data)
74ALS538	3-to-8-line decoders/demultiplexers
74ALS539	2-to-4-line decoders/demultiplexers
74AS131	3-to-8-line decoders/demultiplexers with address registers
74AS137	3-to-8-line decoders/demultiplexers with address latches
74AS138	3-to-8-line decoders/demultiplexers
74AS139	Dual 2-to-4-line decoders/demultiplexers
74F138	1-of-8 decoder/demultiplexer
74F139	Dual 1-of-4 decoder
74F537	1-of-10 decoder with 3-state outputs
74F538	1-of-8 decoder with 3-state outputs
74F539	Dual 1-of-4 decoder with 3-state outputs
74F547	Octal decoder/demultiplexer with address latches and acknowledge
74F548	Octal decoder/demultiplexer with acknowledge
74LS42	4-line to 10-line decoders (BCD to decimal)
74LS47	BCD-to-seven-segment decoders/drivers (15 volt outputs)
74LS48	BCD-to-seven-segment decoders/drivers

74LS49 BCD-to-seven-segment decoders/drivers
(open-collector outputs)
 74LS137 3-to-8-line decoders/demultiplexers with
address latches
 74LS138 3-to-8-line decoders/demultiplexers
 74LS139 Dual 2-to-4-line decoders/demultiplexers
 74LS145 BCD-to-decimal decoders/drivers for lamps,
relays, mos
 74LS155A Decoders/demultiplexers (totem-pole outputs)
 74LS156 Decoders/demultiplexers (open-collector
outputs)
 74LS247 BCD-to-seven-segment decoders/drivers with
ripple blanking (active low, open-collector,
15-volt outputs)
 74LS248 BCD-to-seven-segment decoders/drivers (internal
pull-up outputs)
 74LS249 BCD-to-seven-segment decoders/drivers
(open-collector outputs)
 74LS347 BCD-to-seven-segment decoders/drivers
 74LS365A Hex bus drivers (non-inverted 3-state outputs,
gated enable inputs)
 74LS366A Hex bus drivers (inverted 3-state outputs,
gated enable inputs)
 74LS367A Hex bus drivers (noninverted 3-state outputs
organized to facilitate handling 4-bit data)
 74LS368A Hex bus drivers (inverted 3-state outputs
organized to facilitate handling 4-bit data)
 74LS445 BCD-to-decimal decoders/drivers
 74LS447 BCD-to-7-segment decoders/drivers
 74S138 3-to-8-line decoders/demultiplexers
 74S139 Dual 2-to-4-line decoders/demultiplexers
 74S436 Line driver/memory driver circuits-mos memory
interface
 74S437 Line driver/memory driver circuits-mos memory
interface

ENCODERS

74147 10-line decimal to 4-line BCD priority encoder
 74148 8-to-3-line octal priority encoder
 74F148 8-line to 3-line priority encoder
 74LS147 10-line decimal to 4-line BCD priority encoder
 74LS148 8-to-3-line octal priority encoder
 74LS348 8-line to 3-line priority encoder (with
3-state outputs)

ERROR DETECTION/CORRECTION CIRCUITS

74F401	CRC generator/checker
74F402	Serial data polynomial generator/checker
74F418	32-bit memory error detection and correction circuit
74F420	Parallel check bit/syndrome bit generator
74F630	16-bit error detection and correction circuit with 3-state outputs
74F632	32-bit parallel error detection and correction circuit
74LS630	16-bit parallel error detection and correction circuits
74LS631	16-bit parallel error detection and correction circuits
74LS636	8-bit parallel error detection and correction circuits
74LS637	8-bit parallel error detection and correction circuits

EXCLUSIVE OR/NOR GATES

7486	Quadruple 2-input exclusive-or gates
74136	Quad exclusive-or gates with open-collector outputs
74ALS86	Quadruple 2-input exclusive-or gates
74F86	Quad 2-input exclusive-or gates
74LS86	Quadruple 2-input exclusive-or gates
74LS136	Quad exclusive-or gates with open-collector outputs
74LS266	Quad 2-input exclusive-nor gates with open-collector outputs
74LS386	Quad 2-input exclusive-or gates
74S86	Quadruple 2-input exclusive-or gates
74S135	Quad exclusive-or/nor gates

FIFO MEMORY

74F403	First-in first-out (FIFO) buffer memory
74F413	64x4 first-in first-out buffer memory with serial and parallel I/O
74F433	First-in first-out (FIFO) buffer memory

FLIP FLOPS

7470	And-gated J-K positive-edge-triggered flip-flops with preset and clear
7472	And-gated J-K master-slave flip-flops with preset and clear
7473	Dual J-K flip-flops with clear
7474	Dual D-type positive-edge-triggered flip-flops with preset and clear
7476	Dual J-K flip-flops with preset and clear
74104	And-gated J-K master-slave flip-flops
74105	And-gated J-K master-slave flip-flops
74107	Dual J-K flip-flops with clear
74109	Dual J-K' positive-edge-triggered flip-flops with preset and clear
74110	And-gated J-K master-slave flip-flops with data lockout
74111	Dual J-K master-slave flip-flops with data lockout
74174	Hex D-type flip-flops with single rail outputs and common direct clear
74175	Quad D-type flip-flops with complimentary outputs and common direct clear
74273	Octal D-type flip-flops with common clock single rail outputs
74276	Quad J-K' flip-flops with common direct preset and clear
74376	Quad J-K' flip-flops with common clock and common clear
74ALS74	Dual D-type positive-edge-triggered flip-flops with preset and clear
74ALS109	Dual J-K' positive-edge-triggered flip-flops with preset and clear
74ALS112A	Dual J-K negative-edge-triggered flip-flops with preset and clear
74ALS113A	Dual J-K negative-edge-triggered flip-flops with preset
74ALS114A	Dual J-K negative-edge-triggered flip-flops with preset, common clear, and common clock
74ALS174	Hex D-type flip-flops
74ALS175	Quad D-type flip-flops
74ALS273	Octal D-type flip-flops
74ALS374	Octal D-type flip-flops
74ALS534	Octal D-type edge-triggered flip-flops
74ALS564	Octal D-type edge-triggered flip-flops
74ALS574	Octal D-type edge-triggered flip-flops
74ALS575	Octal D-type edge-triggered flip-flops
74ALS576	Octal D-type edge-triggered flip-flops
74ALS577	Octal D-type edge-triggered flip-flops

74ALS874	Dual 4-bit D-type edge-triggered flip-flops
74ALS876	Dual 4-bit D-type edge-triggered flip-flops with inverted outputs
74ALS878	Dual 4-bit D-type edge-triggered flip-flops
74ALS879	Dual 4-bit D-type edge-triggered flip-flops with inverted outputs
74AS74	Dual D-type positive-edge-triggered flip-flops with preset and clear
74AS109	Dual J-K' positive-edge-triggered flip-flops with preset and clear
74AS112	Dual J-K negative-edge-triggered flip-flops with preset and clear
74AS113	Dual J-K negative-edge-triggered flip-flops with preset
74AS114	Dual J-K negative-edge-triggered flip-flops with preset, common clear, and common clock
74AS174	Hex D-type flip-flops
74AS175	Quad D-type flip-flops
74AS374	Octal D-type flip-flops
74AS534	Octal D-type edge-triggered flip-flops
74AS574	Octal D-type edge-triggered flip-flops
74AS575	Octal D-type edge-triggered flip-flops
74AS576	Octal D-type edge-triggered flip-flops
74AS577	Octal D-type edge-triggered flip-flops
74AS821	10-bit bus interface flip-flops with 3-state outputs
74AS822	10-bit bus interface flip-flops with 3-state outputs
74AS823	9-bit bus interface flip-flops with 3-state outputs
74AS824	9-bit bus interface flip-flops with 3-state outputs
74AS825	8-bit bus interface flip-flops with 3-state outputs
74AS826	8-bit bus interface flip-flops with 3-state outputs
74AS874	Dual 4-bit D-type edge-triggered flip-flops
74AS876	Dual 4-bit D-type edge-triggered flip-flops with inverted outputs
74AS878	Dual 4-bit D-type edge-triggered flip-flops
74AS879	Dual 4-bit D-type edge-triggered flip-flops with inverted outputs
74F74	Dual D-type positive edge-triggered flip-flops
74F174	Hex D flip-flops with master reset
74F175	Quad D flip-flops
74F273	Octal D flip-flops
74F374	Octal D-type flip-flops with 3-state outputs
74F377	Octal D flip-flops with clock enable
74F534	Octal D-type flip-flops with 3-state outputs

74F564	Octal D-type flip-flops with 3-state outputs
74F574	Octal D-type flip-flops with 3-state outputs
74F821	10-bit D-type flip-flop
74F823	9-bit D-type flip-flop
74F825	8-bit D-type flip-flop
74LS73A	Dual J-K flip-flops with clear
74LS74A	Dual D-type positive-edge-triggered flip-flops with preset and clear
74LS76A	Dual J-K flip-flops with preset and clear
74LS78A	Dual J-K flip-flops with preset, common clear, and common clock
74LS107A	Dual J-K flip-flops with clear
74LS109A	Dual J-K' positive-edge-triggered flip-flops with preset and clear
74LS112A	Dual J-K negative-edge-triggered flip-flops with preset and clear
74LS113A	Dual J-K negative-edge-triggered flip-flops with preset
74LS114A	Dual J-K negative-edge-triggered flip-flops with preset, common clear, and common clock
74LS171	Quad D-type flip-flops with clear
74LS174	Hex D-type flip-flops
74LS175	Quad D-type flip-flops
74LS273	Octal D-type flip-flops
74LS374	Octal D-type flip-flops
74LS377	Octal D-type flip-flops
74LS378	Hex D-type flip-flops
74LS379	Quad D-type flip-flops
74S74	Dual D-type positive-edge-triggered flip-flops with preset and clear
74S112	Dual J-K negative-edge-triggered flip-flops with preset and clear
74S113	Dual J-K negative-edge-triggered flip-flops with preset
74S114	Dual J-K negative-edge-triggered flip-flops with preset, common clear, and common clock
74S174	Hex D-type flip-flops
74S175	Quad D-type flip-flops
74S374	Octal D-type flip-flops

FREQUENCY DIVIDERS

74LS56	50-to-1 frequency divider
74LS57	60-to-1 frequency divider
74LS292	Programmable frequency dividers/digital timers
74LS294	Programmable frequency dividers/ digital timers

INVERTERS

7404	Hex inverters
7405	Hex inverters with open-collector outputs
7406	Hex inverter buffers/drivers with open-collector high-voltage outputs
7414	Hex schmitt-trigger inverters
7416	Hex inverter buffers/drivers with open-collector high-voltage outputs
74ALS04A	Hex inverters
74ALS05A	Hex inverters with open-collector outputs
74AS04	Hex inverters
74F04	Hex inverter
74F14	Hex inverter Schmitt trigger
74F64	4-2-3-2-input and/or invert gate
74LS04	Hex inverters
74LS05	Hex inverters with open-collector outputs
74LS14	Hex schmitt-trigger inverters
74LS19	Schmitt-trigger inverters with totem-pole outputs
74S04	Hex inverters
74S05	Hex inverters with open-collector outputs

LATCHES

7475	4-bit bistable latches
74100	8-bit bistable latches
74116	Dual 4-bit latches
74259	8-bit addressable latches
74279	Quad S'-R' latches
74ALS373	Octal D-type latches
74ALS533	Octal D-type transparent latches
74ALS563	Octal D-type transparent latches with inverted outputs
74ALS573	Octal D-type transparent latches
74ALS580	Octal D-type transparent latches with inverted outputs
74ALS841	10-bit bus interface D-type latches with 3-state outputs
74ALS842	10-bit bus interface D-type latches with 3-state outputs
74ALS843	9-bit bus interface D-type latches with 3-state outputs
74ALS844	9-bit bus interface D-type latches with 3-state outputs
74ALS845	8-bit bus interface D-type latches with 3-state outputs

74ALS846	8-bit bus interface D-type latches with 3-state outputs
74ALS873	Dual 4-bit D-type latches
74ALS880	Dual 4-bit D-type latches with inverted outputs
74AS373	Octal D-type latches
74AS533	Octal D-type transparent latches
74AS573	Octal D-type transparent latches
74AS580	Octal D-type transparent latches with inverted outputs
74AS841	10-bit bus interface D-type latches with 3-state outputs
74AS842	10-bit bus interface D-type latches with 3-state outputs
74AS843	9-bit bus interface D-type latches with 3-state outputs
74AS844	9-bit bus interface D-type latches with 3-state outputs
74AS845	8-bit bus interface D-type latches with 3-state outputs
74AS846	8-bit bus interface D-type latches with 3-state outputs
74AS873	Dual 4-bit D-type latches
74AS880	Dual 4-bit D-type latches with inverted outputs
74F256	Dual 4-bit addressable latches
74F259	8-Bit addressable latch
74F373	Octal transparent latch with 3-state outputs
74F432	Multi-mode buffered latch with 3-state outputs
74F533	Octal transparent latch with 3-state outputs
74F563	Octal D-type latch with 3-state outputs
74F573	Octal D-type latch with 3-state outputs
74F841	10-bit transparent latch
74F843	9-bit transparent latch
74F845	8-bit transparent latch
74LS75	4-bit bistable latches
74LS259	8-bit addressable latches
74LS279A	Quad S'-R' latches
74LS363	Octal D-type latches
74LS364	Octal D-type flip-flops
74LS373	Octal D-type latches
74LS375	4-bit bistable latches
74S268	Hex D-type latches
74S373	Octal D-type latches

MEMORY MAPPERS

74F610	Memory mappers with 3-state outputs and output latches
74F612	Memory mappers with 3-state outputs and output latches
74LS610	Memory mappers
74LS611	Memory mappers
74LS612	Memory mappers
74LS613	Memory mappers

MULTIPLEXERS

74150	1-of-16 data selectors/multiplexers
74151A	1-of-8 data selectors/multiplexers
74153	Dual 4-line to 1-line data selectors/ multiplexers
74157	Quad 2-line to 1-line data selectors/ multiplexers
74251	Data selectors/multiplexers with true and inverted tri-state outputs
74298	Quad 2-input multiplexers with storage
74351	Dual 8-line to 1-line data selectors/ multiplexers
74ALS151	1-of-8 data selectors/multiplexers
74ALS153	Dual 4-line to 1-line data selectors/ multiplexers
74ALS157	Quad 2-line to 1-line data selectors/ multiplexers
74ALS158	Quad 2-to 1-line data selectors/ multiplexers
74ALS251	Data selectors/multiplexers
74ALS253	Dual data selectors/multiplexers
74ALS257	Quad data selectors/multiplexers
74ALS258	Quad data selectors/multiplexers
74ALS352	Dual 4-line to 1-line data selectors/ multiplexers
74ALS353	Dual 4-line to 1-line data selectors/ multiplexers
74ALS857	Hex 2-to-1 universal multiplexer
74AS151	1-of-8 data selectors/multiplexers
74AS153	Dual 4-line to 1-line data selectors/ multiplexers
74AS157	Quad 2-line to 1-line data selectors/ multiplexers
74AS158	Quad 2-to 1-line data selectors/multiplexers
74AS250	1-of-16 data selectors/ multiplexers
74AS251	Data selectors/multiplexers

74AS253	Dual data selectors/multiplexers
74AS257	Quad data selectors/multiplexers
74AS258	Quad data selectors/multiplexers
74AS298	Quad 2-input multiplexers with storage
74AS352	Dual 4-line to 1-line data selectors/ multiplexers
74AS353	Dual 4-line to 1-line data selectors/ multiplexers
74AS850	1 of 16 data selectors/multiplexers
74AS851	1 of 16 data selectors/multiplexers
74AS857	Hex 2-to-1 universal multiplexer
74F151A	8-input multiplexer
74F153	Dual 4-input multiplexer
74F157A	Quad 2-input multiplexer
74F158A	Quad 2-input multiplexer
74F251A	8-input multiplexer with 3-state outputs
74F253	Dual 4-input multiplexer with 3-state outputs
74F257	Quad 2-input multiplexer with 3-state outputs
74F258	Quad 2-input multiplexer with 3-state outputs
74F298	Quad 2-input multiplexer with storage
74F352	Dual 4-input multiplexer
74F353	Dual 4-input multiplexer with 3-state outputs
74LS151	1-of-8 data selectors/multiplexers
74LS153	Dual 4-line to 1-line data selectors/ multiplexers
74LS157	Quad 2-line to 1-line data selectors/ multiplexers
74LS158	Quad 2-to 1-line data selectors/multiplexers
74LS251	Data selectors/multiplexers
74LS253	Dual data selectors/multiplexers
74LS257B	Quad data selectors/multiplexers
74LS258B	Quad data selectors/multiplexers
74LS298	Quad 2-input multiplexers with storage
74LS352	Dual 4-line to 1-line data selectors/ multiplexers
74LS353	Dual 4-line to 1-line data selectors/ multiplexers
74LS354	8-line to 1-line data selectors/multiplexers/ transparent registers
74LS355	8-line to 1-line data selectors/multiplexers/ transparent registers
74LS356	8-line to 1-line data selectors/multiplexers/ edge-triggered registers
74LS357	8-line to 1-line data selectors/multiplexers/ edge-triggered registers
74LS398	Quad 2-input multiplexers with storage
74LS399	Quad 2-input multiplexers with storage
74S151	1-of-8 data selectors/multiplexers

74S153	Dual 4-line to 1-line data selectors/ multiplexers
74S157	Quad 2-line to 1-line data selectors/ multiplexers
74S158	Quad 2-to 1-line data selectors/multiplexers
74S251	Data selectors/multiplexers
74S253	Dual data selectors/multiplexers
74S257	Quad data selectors/multiplexers
74S258	Quad data selectors/multiplexers

MULTIPLIERS

7497	Synchronous 6-bit binary rate multipliers
74167	Synchronous decade rate multipliers
74285	4-bit by 4-bit parallel binary multipliers used with 74284
74F384	8-bit serial/parallel two's complement multiplier
74F784	8-bit serial/parallel multiplier with adder/subtractor
74LS261	2-bit by 4-bit parallel binary multipliers
74LS384	8-bit by 1-bit two's complement multipliers
74S274	4-bit by 4-bit binary multipliers

MULTIVIBRATORS

74121	Monostable multivibrators
74122	Retriggerable monostable multivibrators with clear
74123	Dual retriggerable monostable multivibrators with positive and negative inputs and direct clear
74221	Dual monostable multivibrators
74LS122	Retriggerable monostable multivibrators with clear
74LS123	Dual retriggerable monostable multivibrators with positive and negative inputs and direct clear
74LS221	Dual monostable multivibrators
74LS422	Re-triggerable monostable multivibrators
74LS423	Re-triggerable monostable multivibrators

OR/NOR GATES

7402	Quadruple 2-input positive-nor gates
7425	Dual 4-input positive-nor gates with strobe
7427	Triple 3-input positive nor gates
7432	Quadruple 2-input positive-or gates
74ALS02	Quadruple 2-input positive-nor gates
74ALS27	Triple 3-input positive-nor gates
74ALS32	Quadruple 2-input positive-or gates
74ALS805	Hex 2-input nor drivers
74ALS832	Hex 2-input or drivers
74AS02	Quadruple 2-input positive-nor gates
74AS27	Triple 3-input positive-nor gates
74AS32	Quadruple 2-input positive-or gates
74AS805A	Hex 2-input nor drivers
74AS832A	Hex 2-input or drivers
74F02	Quad 2-input nor gate
74F32	Quad 2-input or gate
74LS02	Quadruple 2-input positive-nor gates
74LS27	Triple 3-input positive-nor gates
74LS32	Quadruple 2-input positive-or gates
74S02	Quadruple 2-input positive-nor gates
74S32	Quadruple 2-input positive-or gates
74S260	Dual 5-input positive-nor gates

PARITY GENERATORS

74180	9-bit odd/even parity generators/checkers
74AS280	9-bit odd/even parity generators/checkers
74AS286	9-bit odd/even parity generators checkers with bus driver parity I/O port
74F280	9-bit odd/even parity generators/checkers
74LS280	9-bit odd/even parity generators/checkers
74S280	9-bit odd/even parity generators/checkers

REGISTER FILES

74170	4-by-4 register files
74172	16-bit register files
74AS870	Dual 16-by-4 register files
74AS871	Dual 16-by-4 register files
74LS170	4-by-4 register files
74LS670	4-by-4 register files

REGISTERS

74173	4-bit D-type registers with tri-state outputs
74278	4-bit cascadable priority registers
74F322	8-bit serial/parallel register with sign extend
74F378	Parallel D register with enable
74F379	Quad parallel register with enable
74F398	Quad 2-port register
74F399	Quad 2-port register
74F407	Data access register
74F410	Register stack--16x4 RAM 3-state output register
74F604	Dual octal registers with multiplexed 3-state outputs
74LS173A	4-bit D-type registers
74LS396	Octal storage registers
74LS604	Octal 2-input multiplexed registers
74LS605	Octal 2-input multiplexed registers
74LS606	Octal 2-input multiplexed registers
74LS607	Octal 2-input multiplexed registers

SHIFT REGISTERS

7491A	8-bit shift registers
7494	4-bit shift registers (dual asynchronous presets)
7495A	4-bit shift registers (p-inputs/p-outputs, s/l; s/r; serial inputs)
7496	5-bit shift registers
74164	8-bit parallel out serial shift registers
74165	Parallel-load 8-bit shift registers with complementary outputs
74166	8-bit shift registers (parallel/serial input;serial output)
74178	4-bit universal shift register
74179	4-bit universal shift registers (direct clear; complimentary outputs)
74194	4-bit bidirectional universal shift registers
74195	4-bit parallel-access shift registers
74198	8-bit bidirectional universal shift register
74199	8-bit bidirectional universal shift registers (J-K' serial inputs)
74ALS164	8-bit parallel out serial shift registers (asynchronous clear)
74ALS165	8-bit shift registers (parallel-load with complementary outputs)
74ALS166	8-bit shift registers (parallel/serial input; serial output)

74ALS299	8-bit bidirectional universal shift/storage registers (3-state outputs)
74ALS323	8-bit bidirectional shift/storage registers
74AS95	4-bit shift registers (parallel-in/parallel-out, shift-right, shift-left, serial input)
74AS194	4-bit bidirectional universal shift registers
74AS195	4-bit parallel-access shift registers
74AS299	8-bit bidirectional universal shift/storage registers (3-state outputs)
4AS323	8-bit bidirectional shift/storage registers
74AS395	4-bit universal shift registers
74F164	Serial-in, parallel-out shift register
74F194	4-bit bidirectional universal shift register
74F195	4-bit parallel access shift register
74F299	8-input universal shift/storage register with common parallel I/O pins
74F323	8-bit universal shift/storage register with synchronous reset and common I/O pins
74F395	4-bit cascadable shift register with 3-state outputs
74F673A	16-bit serial-in, serial/parallel-out shift register
74F674	16-bit serial/parallel-in, serial-out shift register
74F675	16-bit serial-in, serial/parallel-out shift register
74F676	16-bit serial/parallel-in, serial-out shift register
74LS91	8-bit shift registers
74LS95B	4-bit shift registers
74LS96	5-bit shift registers
74LS164	8-bit parallel-out serial shift registers
74LS165	Parallel-load 8-bit shift registers with complementary outputs
74LS166A	8-bit shift registers
74LS194A	4-bit bidirectional universal shift registers
74LS195A	4-bit parallel-access shift registers
74LS295B	4-bit bidirectional universal shift registers
74LS299	8-bit bidirectional universal shift/storage registers
74LS322A	8-bit shift registers with sign extend
74LS323	8-bit bidirectional universal shift/storage registers
74LS395A	4-bit universal shift registers
74LS594	8-bit shift registers with output latches
74LS595	8-bit shift registers with output latches
74LS596	8-bit shift registers with output latches
74LS597	8-bit shift registers with input latches
74LS598	8-bit shift registers with input latches

74LS599	8-bit shift registers with output latches
74LS671	4-bit universal shift registers/latches with 3-state outputs
74LS672	4-bit universal shift registers/latches with 3-state outputs
74LS673	16-bit shift registers
74LS674	16-bit shift registers
74S194	4-bit bidirectional universal shift registers
74S195	4-bit parallel-access shift registers
74S299	8-bit bidirectional universal shift/storage registers

SHIFTERS

74F350	4-bit shifter (3-state outputs)
74S350	4-bit shifter (3-state outputs)

TRANSCEIVERS

74ALS242A	quadruple bus transceivers (inverted 3-state outputs)
74ALS243A	quadruple bus transceivers (non-inverted 3-state outputs)
74ALS245A	Octal bus transceivers (non-inverted 3-state outputs)
74ALS620A	Octal bus transceivers
74ALS621A	Octal bus transceivers
74ALS622A	Octal bus transceivers
74ALS623A	Octal bus transceivers
74ALS638A	Octal bus transceivers
74ALS639A	Octal bus transceivers
74ALS640A	Octal bus transceivers
74ALS641A	Octal bus transceivers
74ALS642A	Octal bus transceivers
74ALS643A	Octal bus transceivers
74ALS644	Octal bus transceivers
74ALS645A	Octal bus transceivers
74ALS646	Octal bus transceivers and registers
74ALS647	Octal bus transceivers and registers
74ALS648	Octal bus transceivers and registers
74ALS649	Octal bus transceivers and registers
74ALS651	Octal bus transceivers and registers
74ALS652	Octal bus transceivers and registers
74ALS653	Octal bus transceivers and registers
74ALS654	Octal bus transceivers and registers

74AS242	Quadruple bus transceivers (inverted 3-state outputs)
74AS243	Quadruple bus transceivers (non-inverted 3-state outputs)
74AS245	Octal bus transceivers (non-inverted 3-state outputs)
74AS620	Octal bus transceivers
74AS621	Octal bus transceivers
74AS622	Octal bus transceivers
74AS623	Octal bus transceivers
74AS638	Octal bus transceivers
74AS639	Octal bus transceivers
74AS640	Octal bus transceivers
74AS641	Octal bus transceivers
74AS642	Octal bus transceivers
74AS643	Octal bus transceivers
74AS644	Octal bus transceivers
74AS645	Octal bus transceivers
74AS646	Octal bus transceivers and registers
74AS648	Octal bus transceivers and registers
74AS651	Octal bus transceivers and registers
74AS652	Octal bus transceivers and registers
74AS758	Quadruple bus transceivers (with open-collector outputs)
74AS759	Quadruple bus transceivers (with open-collector outputs)
74F242	Quad bus transceiver with 3-state outputs
74F243	Quad bus transceiver with 3-state outputs
74F245	Octal bidirectional transceiver with 3-state inputs/outputs
74F543	Octal registered transceiver
74F544	Octal registered transceiver
74F545	Octal bidirectional transceiver with 3-state inputs/outputs
74F550	Octal registered transceiver with status flags
74F551	Octal registered transceiver with status flags
74F588	Octal bidirectional transceiver with 3-state inputs/outputs and IEEE-488 termination resistors
74F620	Inverting octal bus transceiver with 3-state outputs
74F623	Inverting octal bus transceiver with 3-state outputs
74F646	Octal transceiver/register with 3-state outputs
74F648	Octal transceiver/register with 3-state outputs
74F657	Octal bidirectional transceiver with 8-bit parity generator/checker and 3-state outputs

74LS242	Quadruple bus transceivers (inverted 3-state outputs)
74LS243	Quadruple bus transceivers (noninverted 3-state outputs)
74LS245	Octal bus transceivers (noninverted 3-state outputs)
74LS440	Quad tridirectional bus transceivers (open-collector noninverted outputs)
74LS441	Quad tridirectional bus transceivers (open-collector inverted outputs)
74LS442	Quad tridirectional bus transceivers (3-state noninverted outputs)
74LS443	Quad tridirectional bus transceivers (3-state inverted outputs)
74LS444	Quad tridirectional bus transceivers (3-state inverted and noninverted outputs)
74LS446	Quad bus transceivers with direction controls
74LS448	Quad tridirectional bus transceivers (open-collector inverted and noninverted outputs)
74LS449	Quad bus transceivers with direction controls
74LS600A	Memory refresh controllers
74LS602A	Memory refresh controllers
74LS603A	Memory refresh controllers
74LS608	Memory cycle controllers
74LS621	Octal bus transceivers
74LS622	Octal bus transceivers
74LS623	Octal bus transceivers
74LS638	Octal bus transceivers
74LS639	Octal bus transceivers
74LS640	Octal bus transceivers
74LS641	Octal bus transceivers
74LS642	Octal bus transceivers
74LS643	Octal bus transceivers
74LS644	Octal bus transceivers
74LS645	Octal bus transceivers
74LS646	Octal bus transceivers and registers
74LS647	Octal bus transceivers and registers
74LS648	Octal bus transceivers and registers
74LS649	Octal bus transceivers and registers
74LS651	Octal bus transceivers and registers
74LS652	Octal bus transceivers and registers
74LS653	Octal bus transceivers and registers
74LS654	Octal bus transceivers and registers
74S226	4-bit parallel latched bus transceivers

VOLTAGE-CONTROLLED OSCILLATORS

74LS321	Crystal-controlled oscillator (with F/2 and F/4 count-down outputs)
74LS624	Voltage-controlled oscillator
74LS625	Voltage-controlled oscillator
74LS626	Voltage-controlled oscillator
74LS627	Voltage-controlled oscillator
74LS628	Voltage-controlled oscillator
74LS629	Voltage-controlled oscillator
74S124	Dual voltage-controlled oscillator

STANDARD COMPONENT PART PLOTS

Plot 1

▶ 7412	▶ 7432	▶ 7448	▶ 7483A
▶ 7410	▶ 7430	▶ 7447A	▶ 7482
▶ 7409	▶ 7428	▶ 7446A	▶ 7480
▶ 7408	▶ 7427	▶ 7445	▶ 7476
▶ 7407	▶ 7426	▶ 7444A	▶ 7475
▶ 7406	▶ 7425	▶ 7443A	▶ 7474
▶ 7405	▶ 7422	▶ 7442A	▶ 7473
▶ 7404	▶ 7420	▶ 7440	▶ 7472
▶ 7403	▶ 7417	▶ 7439	▶ 7470
▶ 7402	▶ 7416	▶ 7438	▶ 7454
▶ 7401	▶ 7414	▶ 7437	▶ 7451
▶ 7400	▶ 7413	▶ 7433	▶ 7449

STANDARD COMPONENT PART PLOTS

Plot 2

<p>▶ 74100</p>	<p>▶ 74123</p>	<p>▶ 74147</p>
<p>▶ 7497</p>	<p>▶ 74122</p>	<p>▶ 74145</p>
<p>▶ 7496</p>	<p>▶ 74121</p>	<p>▶ 74144</p>
<p>▶ 7495A</p>	<p>▶ 74120</p>	<p>▶ 74143</p>
<p>▶ 7494</p>	<p>▶ 74116</p>	<p>▶ 74142</p>
<p>▶ 7493A</p>	<p>▶ 74111</p>	<p>▶ 74141</p>
<p>▶ 7492A</p>	<p>▶ 74110</p>	<p>▶ 74136</p>
<p>▶ 7491A</p>	<p>▶ 74109</p>	<p>▶ 74132</p>
<p>▶ 7490A</p>	<p>▶ 74107</p>	<p>▶ 74128</p>
<p>▶ 7486</p>	<p>▶ 74105</p>	<p>▶ 74126</p>
<p>▶ 7485</p>	<p>▶ 74104</p>	<p>▶ 74125</p>

STANDARD COMPONENT PART PLOTS

Plot 3

▶ 74160	◀ 74174	◀ 74190
▶ 74159	◀ 74173	◀ 74185A
▶ 74157	◀ 74172	◀ 74184
▶ 74156	◀ 74170	◀ 74182
▶ 74155	◀ 74167	◀ 74181
▶ 74154	◀ 74166	◀ 74180
▶ 74153	◀ 74165	◀ 74179
▶ 74151A	◀ 74164	◀ 74178
▶ 74150	◀ 74163	◀ 74177
▶ 74148	◀ 74162	◀ 74176
	◀ 74161	◀ 74175

STANDARD COMPONENT PART PLOTS

Plot 4

<p>↕ 74246 ↕</p>	<p>↕ 74285 ↕</p>	<p>↕ 74425 ↕</p>	
<p>↕ 74221 ↕</p>	<p>↕ 74283 ↕</p>	<p>↕ 74393 ↕</p>	
<p>↕ 74199 ↕</p>	<p>↕ 74279 ↕</p>	<p>↕ 74390 ↕</p>	
<p>↕ 74198 ↕</p>	<p>↕ 74278 ↕</p>	<p>↕ 74376 ↕</p>	
<p>↕ 74197 ↕</p>	<p>↕ 74273 ↕</p>	<p>↕ 74367A ↕</p>	
<p>↕ 74196 ↕</p>	<p>↕ 74265 ↕</p>	<p>↕ 74366A ↕</p>	
<p>↕ 74195 ↕</p>	<p>↕ 74259 ↕</p>	<p>↕ 74365A ↕</p>	
<p>↕ 74194 ↕</p>	<p>↕ 74251 ↕</p>	<p>↕ 74351 ↕</p>	
<p>↕ 74193 ↕</p>	<p>↕ 74249 ↕</p>	<p>↕ 74298 ↕</p>	
<p>↕ 74192 ↕</p>	<p>↕ 74248 ↕</p>	<p>↕ 74293 ↕</p>	<p>↕ 74490 ↕</p>
<p>↕ 74191 ↕</p>	<p>↕ 74247 ↕</p>	<p>↕ 74290 ↕</p>	<p>↕ 74426 ↕</p>

ADVANCED LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot ALS1

$\frac{\text{74ALS15}}{\text{74ALS15}}$	$\frac{\text{74ALS38}}{\text{74ALS38}}$	$\frac{\text{74ALS139}}{\text{74ALS139}}$	$\frac{\text{74ALS168}}{\text{74ALS168}}$
$\frac{\text{74ALS12}}{\text{74ALS12}}$	$\frac{\text{74ALS37}}{\text{74ALS37}}$	$\frac{\text{74ALS138}}{\text{74ALS138}}$	$\frac{\text{74ALS166}}{\text{74ALS166}}$
$\frac{\text{74ALS11}}{\text{74ALS11}}$	$\frac{\text{74ALS35}}{\text{74ALS35}}$	$\frac{\text{74ALS137}}{\text{74ALS137}}$	$\frac{\text{74ALS165}}{\text{74ALS165}}$
$\frac{\text{74ALS10}}{\text{74ALS10}}$	$\frac{\text{74ALS34}}{\text{74ALS34}}$	$\frac{\text{74ALS133}}{\text{74ALS133}}$	$\frac{\text{ALS164}}{\text{ALS164}}$
$\frac{\text{74ALS09}}{\text{74ALS09}}$	$\frac{\text{74ALS33}}{\text{74ALS33}}$	$\frac{\text{74ALS131}}{\text{74ALS131}}$	$\frac{\text{74ALS163}}{\text{74ALS163}}$
$\frac{\text{74ALS08}}{\text{74ALS08}}$	$\frac{\text{74ALS32}}{\text{74ALS32}}$	$\frac{\text{ALS114}}{\text{ALS114}}$	$\frac{\text{74ALS162}}{\text{74ALS162}}$
$\frac{\text{74ALS05}}{\text{74ALS05}}$	$\frac{\text{74ALS30}}{\text{74ALS30}}$	$\frac{\text{ALS113}}{\text{ALS113}}$	$\frac{\text{74ALS161}}{\text{74ALS161}}$
$\frac{\text{74ALS04}}{\text{74ALS04}}$	$\frac{\text{74ALS28}}{\text{74ALS28}}$	$\frac{\text{74ALS112}}{\text{74ALS112}}$	$\frac{\text{74ALS160}}{\text{74ALS160}}$
$\frac{\text{74ALS03}}{\text{74ALS03}}$	$\frac{\text{74ALS27}}{\text{74ALS27}}$	$\frac{\text{74ALS109}}{\text{74ALS109}}$	$\frac{\text{74ALS158}}{\text{74ALS158}}$
$\frac{\text{74ALS02}}{\text{74ALS02}}$	$\frac{\text{74ALS22}}{\text{74ALS22}}$	$\frac{\text{74ALS86}}{\text{74ALS86}}$	$\frac{\text{74ALS157}}{\text{74ALS157}}$
$\frac{\text{74ALS01}}{\text{74ALS01}}$	$\frac{\text{74ALS21}}{\text{74ALS21}}$	$\frac{\text{74ALS74}}{\text{74ALS74}}$	$\frac{\text{74ALS153}}{\text{74ALS153}}$
$\frac{\text{74ALS00}}{\text{74ALS00}}$	$\frac{\text{74ALS20}}{\text{74ALS20}}$	$\frac{\text{74ALS40}}{\text{74ALS40}}$	$\frac{\text{74ALS151}}{\text{74ALS151}}$

ADVANCED LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot ALS2

▶ 74ALS244	▶ 74ALS365	▶ 74ALS520
▶ 74ALS243	▶ 74ALS353	▶ 74ALS519
▶ 74ALS242	▶ 74ALS352	▶ 74ALS518
▶ 74ALS241	▶ 74ALS323	▶ 74ALS468A
▶ 74ALS240	▶ 74ALS299	▶ 74ALS467A
▶ 74ALS193	▶ 74ALS273	▶ 74ALS466A
▶ 74ALS192	▶ 74ALS259	▶ 74ALS465A
▶ 74ALS191	▶ 74ALS258	▶ 74ALS374
▶ 74ALS190	▶ 74ALS257	▶ 74ALS373
▶ 74ALS175	▶ 74ALS253	▶ 74ALS368
▶ 74ALS174	▶ 74ALS251	▶ 74ALS367
▶ 74ALS169	▶ 74ALS245	▶ 74ALS366

ADVANCED LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot ALS3

▶ 74ALS560A	▶ 74ALS580	▶ 74ALS645A
▶ 74ALS541	▶ 74ALS577	▶ 74ALS644A
▶ 74ALS540	▶ 74ALS576	▶ 74ALS643A
▶ 74ALS539	▶ 74ALS575	▶ 74ALS642A
▶ 74ALS538		▶ 74ALS641A
▶ 74ALS534		
▶ 74ALS533		
▶ ALS28		▶ 74ALS639A
▶ 74ALS527		▶ 74ALS623A
▶ 74ALS526		▶ 74ALS622A
▶ 74ALS522		▶ 74ALS621A
▶ 74ALS521		▶ 74ALS620A

ADVANCED LOW POWER SCHOTTKY COMPONENT PART PLOTS
Plot ALS4

▶ 74ALS654	▶ 74ALS844	▶ 74ALS880
▶ 74ALS653	▶ 74ALS843	▶ 74ALS879
▶ 74ALS652	▶ 74ALS842	▶ 74ALS878
▶ 74ALS651	▶ 74ALS841	▶ 74ALS876
▶ 74ALS649	▶ 74ALS832	▶ 74ALS874
▶ 74ALS648	▶ 74ALS808	▶ 74ALS873
▶ 74ALS647	▶ 74ALS805	▶ 74ALS857
▶ 74ALS646	▶ 74ALS804	▶ 74ALS846
	▶ 74ALS689	
	▶ 74ALS688	▶ 74ALS845

ADVANCED SCHOTTKY COMPONENT PART PLOTS

Plot ASI

74AS34	74AS153	74AS181A	74AS245
74AS32	74AS151		
74AS30	74AS139	74AS175	74AS244
74AS27	74AS138	74AS174	74AS243
74AS24	74AS137	74AS169	74AS242
74AS20	74AS131	74AS168	74AS241
74AS11	74AS114	74AS163	74AS240
74AS10	74AS113	74AS162	74AS231
74AS08	74AS112	74AS161	74AS230
74AS04	74AS109	74AS160	74AS195
74AS02	74AS95	74AS158	74AS194
74AS00	74AS74	74AS157	74AS182

ADVANCED SCHOTTKY COMPONENT PART PLOTS

Plot ASS2

<p>◀ 74AS299</p> <p>▶ 74AS298</p>	<p>▶ 74AS575</p>	<p>▶ 74AS641</p>
<p>▶ 74AS286</p>	<p>▶ 74AS574</p>	<p>▶ 74AS640</p>
<p>▶ 74AS282</p>	<p>▶ 74AS573</p>	<p>▶ 74AS639</p>
<p>▶ 74AS280</p>	<p>▶ 74AS534</p>	<p>▶ 74AS638</p>
<p>▶ 74AS264</p>	<p>▶ 74AS533</p>	<p>▶ 74AS623</p>
<p>▶ 74AS258</p>	<p>▶ 74AS395</p>	<p>▶ 74AS622</p>
<p>▶ 74AS257</p>	<p>▶ 74AS374</p>	<p>▶ 74AS621</p>
<p>▶ 74AS253</p>	<p>▶ 74AS373</p>	<p>▶ 74AS620</p>
<p>▶ 74AS251</p>	<p>▶ 74AS353</p>	<p>▶ 74AS580</p>
<p>▶ 74AS250</p>	<p>▶ 74AS352</p>	<p>▶ 74AS577</p>
	<p>▶ 74AS323</p>	<p>▶ 74AS576</p>

ADVANCED SCHOTTKY COMPONENT PART PLOTS

Plot ASS

▶ 74AS757	▶ 74AS821	▶ 74AS842
▶ 74AS756	▶ 74AS808A	▶ 74AS841
▶ 74AS652	▶ 74AS805A	▶ 74AS832A
▶ 74AS651	▶ 74AS804A	▶ 74AS826
▶ 74AS648	▶ 74AS802	▶ 74AS825
▶ 74AS646	▶ 74AS800	▶ 74AS824
▶ 74AS645	▶ 74AS763	▶ 74AS823
▶ 74AS644	▶ 74AS762	▶ 74AS759
▶ 74AS643	▶ 74AS760	▶ 74AS758
▶ 74AS642	▶ 74AS758	▶ 74AS822

ADVANCED SCHOTTKY COMPONENT PART PLOTS

Plot AS4

▶ 74AS866	▶ 74AS878
▶ 74AS857	▶ 74AS876
▶ 74AS851	▶ 74AS874
▶ 74AS850	▶ 74AS873
▶ 74AS846	▶ 74AS871
▶ 74AS845	▶ 74AS870
▶ 74AS844	▶ 74AS869
▶ 74AS843	▶ 74AS867
	▶ 74AS885
	▶ 74AS882
	▶ 74AS881A
	▶ 74AS880
	▶ 74AS879

FAIRCHILD ADVANCED SCHOTTKY TTL COMPONENT
PART PLOTS

Plot F1

▷ 74F38	▷ 74F139	▷ 74F169	▷ 74E240
▷ 74F37	▷ 74F138	▷ 74F168	▷ 74F195
▷ 74F32	▷ 74F132	▷ 74F164	▷ 74F194
▷ 74F20	▷ 74F114	▷ 74F163A	▷ 74F193
▷ 74F14	▷ 74F113	▷ 74F162A	▷ 74F192
▷ 74F13	▷ 74F112	▷ 74F161A	▷ 74F191
▷ 74F11	▷ 74F109	▷ 74F160A	▷ 74F190
▷ 74F10	▷ 74F86	▷ 74F158A	▷ 74F182
▷ 74F08	▷ 74F85	▷ 74F157A	▷ 74F181
▷ 74F04	▷ 74F74	▷ 74F153	
▷ 74F02	▷ 74F64	▷ 74F151A	▷ 74F175
▷ 74F00	▷ 74F40	▷ 74F148	▷ 74F174

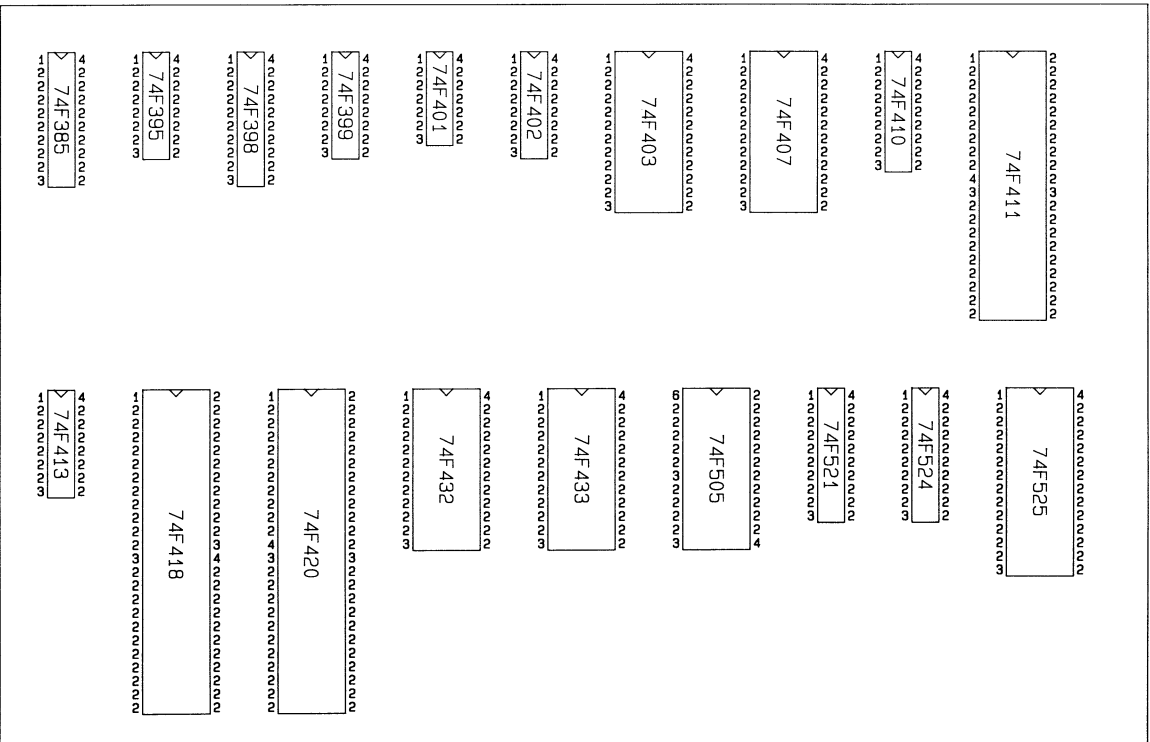
FAIRCHILD ADVANCED SCHOTTKY TTL COMPONENT
PART PLOTS

Plot F2

◀ 0000000000 74F259 ▶ 0000000000	▶ 0000000000 74F353 ▶ 0000000000	▶ 0000000000 74F384 ▶ 0000000000
▶ 0000000000 74F258 ▶ 0000000000	▶ 0000000000 74F352 ▶ 0000000000	▶ 0000000000 74F382 ▶ 0000000000
▶ 0000000000 74F257 ▶ 0000000000	▶ 0000000000 74F350 ▶ 0000000000	▶ 0000000000 74F381 ▶ 0000000000
▶ 0000000000 74F256 ▶ 0000000000	▶ 0000000000 74F323 ▶ 0000000000	▶ 0000000000 74F379 ▶ 0000000000
▶ 0000000000 74F253 ▶ 0000000000	▶ 0000000000 74F322 ▶ 0000000000	▶ 0000000000 74F378 ▶ 0000000000
▶ 0000000000 74F251A ▶ 0000000000	▶ 0000000000 74F299 ▶ 0000000000	▶ 0000000000 74F377 ▶ 0000000000
▶ 0000000000 74F245 ▶ 0000000000	▶ 0000000000 74F298 ▶ 0000000000	▶ 0000000000 74F374 ▶ 0000000000
▶ 0000000000 74F244 ▶ 0000000000	▶ 0000000000 74F283 ▶ 0000000000	▶ 0000000000 74F368 ▶ 0000000000
▶ 0000000000 74F243 ▶ 0000000000	▶ 0000000000 74F280 ▶ 0000000000	▶ 0000000000 74F367 ▶ 0000000000
▶ 0000000000 74F242 ▶ 0000000000	▶ 0000000000 74F273 ▶ 0000000000	▶ 0000000000 74F366 ▶ 0000000000
▶ 0000000000 74F241 ▶ 0000000000	▶ 0000000000 74F269 ▶ 0000000000	▶ 0000000000 74F365 ▶ 0000000000

FAIRCHILD ADVANCED SCHOTTKY TTL COMPONENT
PART PLOTS

Plot F3



TTL Standard Components 70

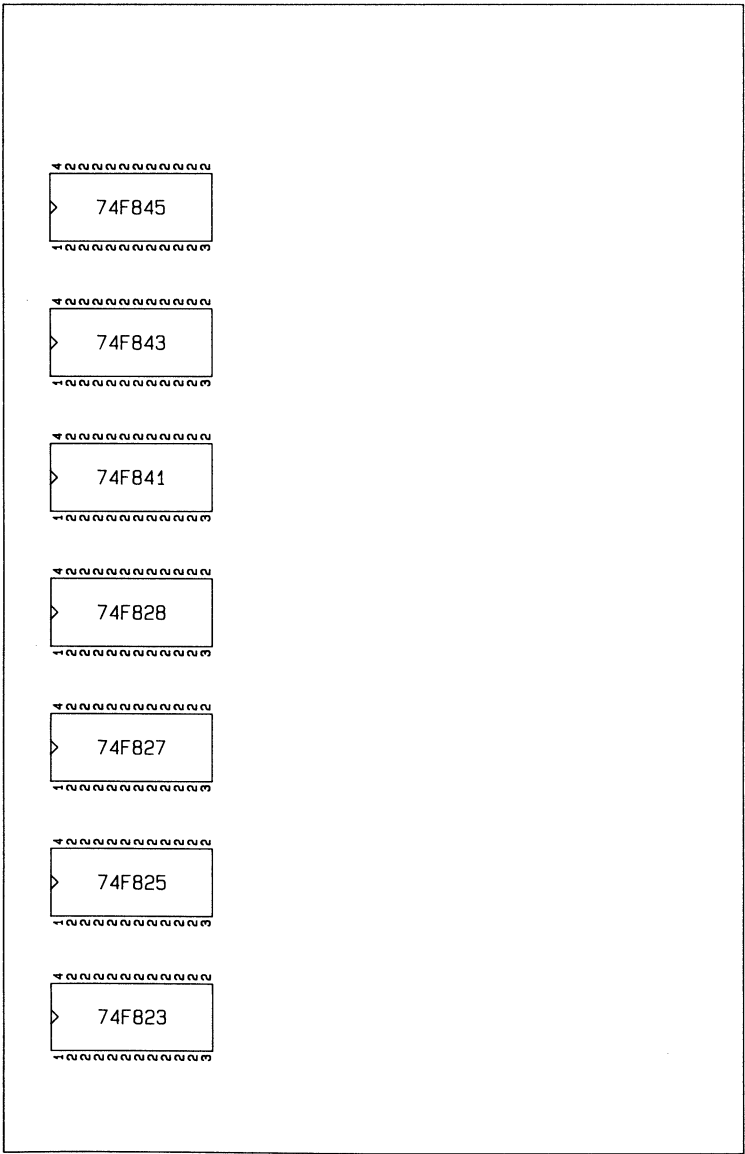
FAIRCHILD ADVANCED SCHOTTKY TTL COMPONENT
PART PLOTS

Plot F5

74F655	74F821
74F648	74F784
74F646	74F779
74F632	74F676
74F630	74F675A
74F623	74F674
74F620	74F673A
74F612	74F657
74F610	74F856

FAIRCHILD ADVANCED SCHOTTKY TTL COMPONENT
PART PLOTS

Plot F6



TTL Standard Components 72

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L51

◀ 00000000 74LS13 † 00000000	▶ 00000000 74LS30 † 00000000	▶ 00000000 74LS55 † 00000000	▶ 00000000 74LS86 † 00000000
▶ 00000000 74LS12 † 00000000	▶ 00000000 74LS28 † 00000000	▶ 00000000 74LS54 † 00000000	▶ 00000000 74LS85 † 00000000
▶ 00000000 74LS11 † 00000000	▶ 00000000 74LS27 † 00000000	▶ 00000000 74LS51 † 00000000	▶ 00000000 74LS83A † 00000000
▶ 00000000 74LS10 † 00000000	▶ 00000000 74LS26 † 00000000	▶ 00000000 74LS49 † 00000000	▶ 00000000 74LS78A † 00000000
▶ 00000000 74LS09 † 00000000	▶ 00000000 74LS24 † 00000000	▶ 00000000 74LS48 † 00000000	▶ 00000000 74LS76A † 00000000
▶ 00000000 74LS08 † 00000000	▶ 00000000 74LS22 † 00000000	▶ 00000000 74LS47 † 00000000	▶ 00000000 74LS75 † 00000000
▶ 00000000 74LS05 † 00000000	▶ 00000000 74LS21 † 00000000	▶ 00000000 74LS42 † 00000000	▶ 00000000 74LS74A † 00000000
▶ 00000000 74LS04 † 00000000	▶ 00000000 74LS20 † 00000000	▶ 00000000 74LS40 † 00000000	▶ 00000000 74LS73A † 00000000
▶ 00000000 74LS03 † 00000000	▶ 00000000 74LS19 † 00000000	▶ 00000000 74LS38 † 00000000	▶ 00000000 74LS69 † 00000000
▶ 00000000 74LS02 † 00000000	▶ 00000000 74LS18 † 00000000	▶ 00000000 74LS37 † 00000000	▶ 00000000 74LS68 † 00000000
▶ 00000000 74LS01 † 00000000	▶ 00000000 74LS15 † 00000000	▶ 00000000 74LS33 † 00000000	▶ 00000000 74LS57 † 00000000
▶ 00000000 74LS00 † 00000000	▶ 00000000 74LS14 † 00000000	▶ 00000000 74LS32 † 00000000	▶ 00000000 74LS56 † 00000000

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L52

74LS122	74LS151	74LS166A	74LS192
74LS144	74LS148	74LS165	74LS191
74LS113	74LS147	74LS164	74LS190
74LS112A	74LS145	74LS163A	74LS183
74LS109A	74LS139	74LS162A	74LS181
74LS107	74LS138	74LS161A	
74LS96	74LS137	74LS160A	
74LS95B	74LS136	74LS158	74LS174
74LS93	74LS132	74LS157	74LS173A
74LS92	74LS126	74LS156	74LS171
74LS91	74LS125	74LS155A	74LS170
74LS90	74LS123	74LS153	74LS169B

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L53

74LS245	74LS279A	74LS323
74LS244	74LS273	74LS322A
74LS243	74LS266	74LS321
74LS242	74LS261	74LS299
74LS241	74LS259	74LS298
74LS240	74LS258B	74LS295
74LS221	74LS257/B	74LS294
74LS197	74LS253	74LS293
74LS196	74LS251	74LS292
74LS195A	74LS249	74LS290
74LS194A	74LS248	74LS283
74LS193	74LS247	74LS280

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot LS4

▶ 74LS366	▶ 74LS385	▶ 74LS442
▶ 74LS365	▶ 74LS384	▶ 74LS441
▶ 74LS364	▶ 74LS382	▶ 74LS440
▶ 74LS363	▶ 74LS381	▶ 74LS423
▶ 74LS357	▶ 74LS379	▶ 74LS422
▶ 74LS356	▶ 74LS378	▶ 74LS399
▶ 74LS355	▶ 74LS377	▶ 74LS398
▶ 74LS354	▶ 74LS375	▶ 74LS396
▶ 74LS353	▶ 74LS374	▶ 74LS395
▶ 74LS352	▶ 74LS373	▶ 74LS393
▶ 74LS348	▶ 74LS368	▶ 74LS390
▶ 74LS347	▶ 74LS367	▶ 74LS386

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L55

74LS490	74LS599	74LS610
74LS468	74LS598	
74LS467	74LS597	74LS608
74LS466	74LS596	
74LS465	74LS595	74LS607
74LS449	74LS594	74LS606
74LS448	74LS593	74LS605
74LS447	74LS592	74LS604
74LS446	74LS591	
74LS445	74LS590	74LS603A
74LS444	74LS544	74LS602A
74LS443	74LS540	74LS600A

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L56

<p>▶ 74LS627</p> <p>◀ 74LS626</p>	<p>▶ 74LS625</p> <p>◀ 74LS624</p>	<p>▶ 74LS623</p> <p>◀ 74LS622</p>	<p>▶ 74LS621</p> <p>◀ 74LS620</p>	<p>▶ 74LS613</p> <p>◀ 74LS612</p>	<p>▶ 74LS611</p> <p>◀ 74LS610</p>
<p>▶ 74LS641</p> <p>◀ 74LS640</p>	<p>▶ 74LS639</p> <p>◀ 74LS638</p>	<p>▶ 74LS637</p> <p>◀ 74LS636</p>	<p>▶ 74LS631</p> <p>◀ 74LS630</p>	<p>▶ 74LS645</p> <p>◀ 74LS644</p>	<p>▶ 74LS643</p> <p>◀ 74LS642</p>
<p>▶ 74LS649</p> <p>◀ 74LS648</p>	<p>▶ 74LS647</p> <p>◀ 74LS646</p>	<p>▶ 74LS645</p> <p>◀ 74LS644</p>	<p>▶ 74LS643</p> <p>◀ 74LS642</p>	<p>▶ 74LS641</p> <p>◀ 74LS640</p>	<p>▶ 74LS639</p> <p>◀ 74LS638</p>

LOW POWER SCHOTTKY COMPONENT PART PLOTS

Plot L57

74LS673	74LS689	74LS699
74LS672	74LS688	74LS698
74LS671	74LS687	74LS697
74LS670	74LS686	74LS696
74LS669	74LS685	74LS695
74LS668	74LS684	74LS694
74LS664	74LS683	74LS693
74LS663	74LS682	74LS692
74LS662	74LS681	74LS691
74LS661	74LS680	74LS690

SCHOTTKY COMPONENT PART PLOTS

Plot S1

▶ 74522	▶ 745112	▶ 745153	▶ 74S194
▶ 74520	▶ 74S86	▶ 74S151	▶ 74S182
▶ 74S15	▶ 74S85	▶ 74S140	▶ 74S181
▶ 74S11	▶ 74S74	▶ 74S139	
▶ 74S10	▶ 74S65	▶ 74S138	▶ 74S175
▶ 74S09	▶ 74S64	▶ 74S135	▶ 74S174
▶ 74S08	▶ 74S51	▶ 74S134	▶ 74S169
▶ 74S05	▶ 74S40	▶ 74S133	▶ 74S168
▶ 74S04	▶ 74S38	▶ 74S132	▶ 74S163
▶ 74S03	▶ 74S37	▶ 74S124	▶ 74S162
▶ 74S02	▶ 74S32	▶ 74S114	▶ 74S158
▶ 74S00	▶ 74S30	▶ 74S113	▶ 74S157

GERBER PHOTOPLLOTTER APERTURE CHART

LOAD MULTI.PCB	TYPE 0 V50R28C.PS	TYPE 2 (N/C) 60R32C.PS	TYPE 3 (N/C) 60R32G.PS	TYPE 4 (N/C) 60R32P.PS
PADCOM	.050 Circle	.060 Circle	.060 Circle	.060 Circle
FLCOMP	Aperture 15	Aperture 9	Aperture 9	Aperture 9
PADSLD	.050 Circle	.060 Circle	.060 Circle	.060 Circle
FLSOLD	Aperture 15	Aperture 9	Aperture 9	Aperture 9
PADINT	.050 Circle	.060 Circle	.060 Circle	.060 Circle
FLINT	Aperture 15	Aperture 9	Aperture 9	Aperture 9
GNDCON	.020 Ring .060 Inner Diam .100 Outer Diam	.020 Ring .060 Inner Diam .100 Outer Diam	Aperture 9 .025 Width X	.020 Ring .060 Inner Diam .100 Outer Diam
FLGCON	Aperture 8	Aperture 8	Aperture 22	Aperture 8
CLEAR1	.100 Circle Solid Circle	.125 Circle Solid Circle	.125 Circle Solid Circle	.125 Circle Solid Circle
FLCLER	Aperture 20	Aperture 21	Aperture 21	Aperture 21
PWRCON	.020 Ring .060 Inner Diam .100 Outer Diam	.020 Ring .060 Inner Diam .100 Outer Diam	.020 Ring .060 Inner Diam .100 Outer Diam	Aperture 9 .025 Width X
FLPCON	Aperture 8	Aperture 8	Aperture 8	Aperture 22
SLDMSK	.060 Circle	.070 Circle	.070 Circle	.070 Circle
FLSMSK	Aperture 9	Aperture 11	Aperture 11	Aperture 11
DRILL	+28	+32	+32	+32
FLDRLL	Aperture 23 Text 28	Aperture 23 Text 32	Aperture 23 Text 32	Aperture 23 Text 32
PIN*	.050	.050	.050	.050

* The pin layer reflects connectivity (C) with a solid circle or no connectivity (N) with a hollow circle.

GERBER PHOTO PLOTTER APERTURE CHART (Cont'd)

LOAD MULTI.PCB	TYPE 1 (N/C) 60S32C.PS	TYPE 5 (N/C) 60S32P.PS	TYPE 6 (N/C) 60S32G.PS
PADCOM	.060 Square	.060 Square	.060 Square
FLCOMP	Aperture 10	Aperture 10	Aperture 10
PADSLD	.060 Square	.060 Square	.060 Square
FLSOLD	Aperture 10	Aperture 10	Aperture 10
PADINT	.060 Circle	.060 Circle	.060 Circle
FLINT	Aperture 9	Aperture 9	Aperture 9
GNDCON	.020 Ring .060 Inner Diam .100 Outer Diam	.020 Ring .060 Inner Diam .100 Outer Diam	Aperture 9 .025 Width X
FLGCON	Aperture 8	Aperture 8	Aperture 22
CLEAR	.125 Circle Solid Circle	.125 Circle Solid Circle	.125 Circle Solid Circle
FLCLER	Aperture 21	Aperture 21	Aperture 21
PWRCON	.020 Ring .060 Inner Diam .100 Outer Diam	Aperture 9 .025 Width X	.020 Ring .060 Inner Diam .100 Outer Diam
FLPCON	Aperture 8	Aperture 22	Aperture 8
SLDMSK	.070 Square	.070 Square	.070 Square
FLSMSK	Aperture 12	Aperture 12	Aperture 12
DRILL	+32	+32	+32
FRDRLL	Aperture 23 Text 32	Aperture 23 Text 32	Aperture 23 Text 32
PIN*	.050	.050	.050

* The pin layer reflects connectivity (C) with a solid circle or no connectivity (N) with a hollow circle.