

Interchangeability Guide

TTL INTERCHANGEABILITY GUIDE

Direct Replacements were selected as pin-for-pin equivalent circuits based on similarity of electrical and mechanical characteristics as shown in currently published data. Interchangeability in any particular application is not necessarily guaranteed. Before using a substitute, the user should compare the specifications of the substitute device with the detailed specifications of the original device.

TI makes no warranty as to the information furnished and buyer assumes all risk in the use thereof. No liability is assumed for damages resulting from the use of the information contained in this list.

Recommendation for New Designs lists devices performing a similar (sometimes identical) function. Most are pin-for-pin equivalents for the competitor's part. However, the recommended part may have different pin-outs or organizations, as later technologies are listed in some cases to ensure that current high-performance components are recommended.

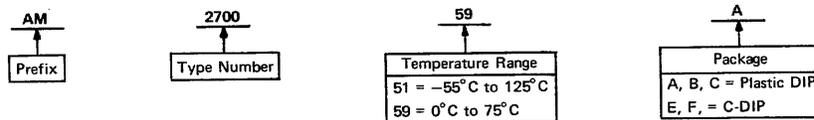
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Only the basic circuit numbers are cross referenced. As the pin-out sometimes varies between a flat-package part and the equivalent DIP part, it is recommended that the manufacturer's specifications be consulted prior to specifying a direct replacement. Other than parts offered only in a flat package, the dual-in-line pin-outs were used as a guide in preparing the following cross references.

This list is intended to give TI replacements for competitors' parts not using the 54/74 numbering system. For a complete listing of parts in the 54 and 74 families, see the functional index, pages 1-9 through 1-28.

ADVANCED MICRO DEVICES

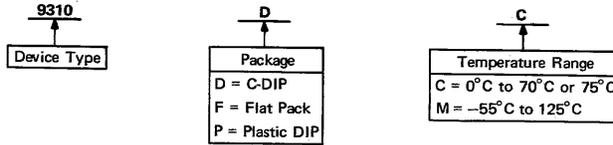
Example of AMD ordering code:



AMD TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGN	AMD TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGN
2501		SN54192/SN74191	27S09	SN54S288/SN74S288	SN54S288/SN74S288
2505		SN54284/SN74284	27S10	SN54S387/SN74S387	SN54S387/SN74S387
2506		SN54285/SN74285	27S11	SN54S287/SN74S287	SN54S287/SN74S287
25LS07	SN54LS378/SN74LS378	SN54S181/SN74S181	3101	SN7489	SN7489
25LS08	SN54LS379/SN74LS379	SN54LS378/SN74LS378	3101A	SN54S289/SN74S289	SN54S289/SN74S289
25LS09	SN54LS399/SN74LS399	SN54LS379/SN74LS379	9300	SN54195/SN74195	SN54195/SN74195
25LS22	SN54LS322/SN74LS322	SN54LS399/SN74LS399	9301	SN29301/SN39301	SN5442A/SN7442A
25LS23	SN54LS323/SN74LS323	SN54LS322/SN74LS322	9308	SN29308/SN39308	SN54116/SN74116
2600		SN54LS323/SN74LS323	9309	SN29309/SN39309	SN54153/SN74153
2602		SN54121/SN74121	9310	SN54160/SN74160	SN54160/SN74160
26123	SN54123/SN74123	SN54123/SN74123	9311	SN54154/SN74154	SN54154/SN74154
2700	SN54S200A/SN74S200A	SN54123/SN74123	9312	SN29312/SN39312	SN54151A/SN74151A
27LS00	SN54LS200A/SN74LS200A	SN54S201/SN74S201	9316	SN54161/SN74161	SN54161/SN74161
2701	SN54S300A/SN74S300A	SN54S201/SN74S201	9318	SN54148/SN74148	SN54148/SN74148
27S02	SN54S289/SN74S289	SN54LS200A/SN74LS200A	9322	SN54157/SN74157	SN54157/SN74157
27S03	SN54S189/SN74S189	SN54S300A/SN74S300A	9334	SN54259/SN74259	SN54259/SN74259
27S08	SN54S188/SN74S188	SN54S301/SN74S301	9341	SN54181/SN74181	SN54181/SN74181
		SN54S289/SN74S289	9342	SN54182/SN74182	SN54182/SN74182
		SN54S189/SN74S189	9601	SN29601	
		SN54S188/SN74S188	93415	SN54S314/SN74S314	SN54S314/SN74S314

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Example of order code:



FSC TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGN	FSC TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGN
9000	SN29000	SN54276/SN74276	9014		SN54S135/SN74S135
9H00	SN54H00/SN74H00	SN54S00/SN74S00	9N14	SN5414/SN7414	SN5414/SN7414
9L00	SN54LS00/SN74LS00	SN54LS00/SN74LS00	9015		SN5402/SN7402
9N00	SN5400/SN7400	SN5400/SN7400	9S15	SN54S15/SN74S15	SN54S15/SN74S15
9S00	SN54S00/SN74S00	SN54S00/SN74S00	9016	SN29016/SN7404, SN5404	SN54S240/SN74S240
		SN54276/SN74276	9N16	SN5416/SN7416	SN5416/SN7416
9001	SN29001	SN54376/SN74376	9017	SN5405/SN7405	SN54S241/SN74S241
9H01	SN54H01/SN74H01	SN54S03/SN74S03	9N17	SN5417/SN7417	SN5417/SN7417
9N01	SN5401/SN7401	SN5403/SN7403	9020		SN74276
9002	SN29002/SN7400, SN5400	SN5400/SN7400	9H20	SN54H20/SN74H20	SN54S20/SN74S20
9N02	SN5402/SN7402	SN5402/SN7402	9N20	SN5420/SN7420	SN5420/SN7420
9S02	SN54S02/SN74S02	SN54S02/SN74S02	9S20	SN54S20/SN74S20	SN54S20/SN74S20
9003	SN29003/SN7410, SN5410	SN5410/SN7410	9H21	SN54H21/SN74H21	SN54S15/SN74S15
9N03	SN5403/SN7403	SN5403/SN7403	9022		SN74376
9S03	SN54S03/SN74S03	SN54S03/SN74S03	9H22	SN54H22/SN74H22	SN54S22/SN74S22
9004	SN29004/SN7420, SN5420	SN5420/SN7420	9S22	SN54S22/SN74S22	SN54S22/SN74S22
9H04	SN54H04/SN74H04	SN54S04/SN74S04	9N23	SN5423/SN7423	SN5423/SN7423
9L04	SN54LS04/SN74LS04	SN54LS04/SN74LS04	9024	SN29024/SN74109, SN54109	SN54276/SN74276
9N04	SN5404/SN7404	SN5404/SN7404	9L24	SN54LS109/SN74LS109	SN54376/SN74376
9S04	SN54S04/SN74S04	SN54S04/SN74S04	9N25	SN5425/SN7425	SN54LS109/SN74LS109
9005	SN29005/SN7450, SN5450	SN5450/SN7450	9N26	SN5426/SN7426	SN5425/SN7425
9H05	SN54H05/SN74H05	SN54S05/SN74S05	9N27	SN5427/SN7427	SN5426/SN7426
9S05	SN54S05/SN74S05	SN54S05/SN74S05	9H30	SN54H30/SN74H30	SN5427/SN7427
9006	SN5460/SN7460	SN5460/SN7460	9N30	SN5430/SN7430	SN54S30/SN74S30
9N06	SN5406/SN7406	SN5406/SN7406	9S30	SN54S30/SN74S30	SN54S30/SN74S30
9007	SN29007	SN54S133/SN74S133	9N32	SN5432/SN7432	SN5430/SN7430
9N07	SN5407/SN7407	SN5407/SN7407	9S32	SN54S32/SN74S32	SN5432/SN7432
9008	SN29008	SN54S65/SN74S65	9033	SN54S32/SN74S32	SN54S32/SN74S32
9N08	SN5408/SN7408	SN5408/SN7408	9034	SN83433, SN93433	SN54S189/SN74S189
9S08	SN54S08/SN74S08	SN54S08/SN74S08	9N37	SN5488A/SN7488A	SN54S371/SN74S371
9009	SN29009/SN7440, SN5440	SN54S140/SN74S140	9N38	SN5437/SN7437	SN5437/SN7437
9N09	SN5409/SN7409	SN5409/SN7409	9H40	SN54H40/SN74H40	SN5438/SN7438
9S09	SN54S09/SN74S09	SN54S09/SN74S09	9N40	SN5440/SN7440	SN54S40/SN74S40
9H10	SN54H10/SN74H10	SN54S10/SN74S10	9S40	SN54S40/SN74S40	SN5440/SN7440
9N10	SN5410/SN7410	SN5410/SN7410	9H50	SN54H50/SN74H50	SN54S40/SN74S40
9S10	SN54S10/SN74S10	SN54S10/SN74S10	9N50	SN5450/SN7450	SN54S51/SN74S51
9H11	SN54H11/SN74H11	SN54S11/SN74S11	9H51	SN54H51/SN74H51	SN5450/SN7450
9S11	SN54S11/SN74S11	SN54S11/SN74S11	9N51	SN5451/SN7451	SN54S51/SN74S51
9012	SN29011/SN7403, SN5403	SN5403/SN7403	9S51	SN54S51/SN74S51	SN5451/SN7451
9N12	SN5412/SN7412	SN5412/SN7412	9H52	SN54H52/SN74H52	SN54S51/SN74S51
9S12	SN5412/SN7412	SN5412/SN7412			
9N13	SN5413/SN7413	SN5413/SN7413			

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<u>FSC TYPE</u>	<u>TI DIRECT REPLACEMENT</u>	<u>RECOMMENDED FOR NEW DESIGN</u>	<u>FSC TYPE</u>	<u>TI DIRECT REPLACEMENT</u>	<u>RECOMMENDED FOR NEW DESIGN</u>
9H53	SN54H53/SN74H53	SN54H53/SN74H53	93L00	SN54LS195/SN74LS195	SN54LS195/SN74LS195
9N53	SN54S53/SN74S53	SN54S53/SN74S53	93S00	SN54S195/SN74S195	SN54S195/SN74S195
9H54	SN54H54/SN74H54	SN54H54/SN74H54	9301	SN39301/SN29301	SN5442A/SN7442A
9L54	SN54L54/SN74L54	SN54LS54/SN74LS54	93L01		SN54L42/SN74L42
9N54	SN54S54/SN74S54	SN54S54/SN74S54	9302		SN5442A/SN7442A
9H55	SN54H55/SN74H55	SN54S65/SN74S65	9304		SN54H183/SN74H183
9H60	SN54H60/SN74H60	SN54S11/SN74S11	9305		SN54S169/SN74S169
9N60	SN5460/SN7460	SN5460/SN7460	93S05		SN54S169/SN74S169
9H61	SN54H61/SN74H61	SN54S11/SN74S11	9307	SN5448A/SN7448A	SN5448A/SN7448A
9H62	SN54H62/SN74H62	SN54H62/SN74H62	9308	SN39308/SN54116	SN54116/SN74116
9S64	SN54S64/SN74S64	SN54S64/SN74S64		SN29308/SN74116	
9S65	SN54S65/SN74S65	SN54S65/SN74S65	9309	SN39309/SN29309	SN54153/SN74153
9N70	SN5470/SN7470	SN5470/SN7470	93L09		SN54L153/SN74L153
9H71	SN54H71/SN74H71	SN54S112/SN74S112		SN39310/SN54160	SN54S162/SN74S162
9H72	SN54H72/SN74H72	SN54S112/SN74S112	9310	SN29310/SN74160	SN54S162/SN74S162
9N72	SN5472/SN7472	SN5472/SN7472	93S10		SN54154/SN74154
9H73	SN54H73/SN74H73	SN54S113/SN74S113	9311	SN39311/SN54154	SN54L154/SN74L154
9N73	SN5473/SN7473	SN5473/SN7473		SN29311/SN74154	SN54151A/SN74151A
9H74	SN54H74/SN74H74	SN54S74/SN74S74	93L11	SN54L154/SN74L154	SN54S151/SN74S151
9N74	SN5474/SN7474	SN5474/SN7474	9312	SN39312/SN29312	SN54251/SN74251
9S74	SN54S74/SN74S74	SN54S74/SN74S74	93S12		SN54273/SN74273
9N75	SN5475/SN7475	SN5475/SN7475	9313		SN54L75/SN74L75
9H76	SN54H76/SN74H76	SN54S112/SN74S112	9314		SN74141
9N76	SN5476/SN7476	SN5476/SN7476	93L14		
9H78	SN54H78/SN74H78	SN54S114/SN74S114	9315	SN54141	
9L86	SN54L86/SN74L86	SN54LS86/SN74LS86	9316	SN39316/SN54161	SN54S163/SN74S163
9N86	SN5486/SN7486	SN5486/SN7486		SN29316/SN74161	
9S86	SN54S86/SN74S86	SN54S86/SN74S86	93S16		SN54S163/SN74S163
9H101	SN54H101/SN74H101	SN54S112/SN74S112	9317B	SN5446A/SN7446A	SN5446A/SN7446A
9H102	SN54H102/SN74H102	SN54S112/SN74S112	9317C	SN5446A/SN7446A	SN5446A/SN7446A
9H103	SN54H103/SN74H103	SN54S113/SN74S113		SN39318/SN54148	SN54148/SN74148
9H106	SN54H106/SN74H106	SN54S112/SN74S112	9318	SN29318/SN74148	
9H107	SN54107/SN74107	SN54107/SN74107	93L21	SN54LS139/SN74LS139	SN54LS139/SN74LS139
9N107	SN54107/SN74107	SN54107/SN74107	9321	SN54S139/SN74S139	SN54S139/SN74S139
9H108	SN54H108/SN74H108	SN54S114/SN74S114		SN39322/SN54157	SN54157/SN74157
9S112	SN54S112/SN74S112	SN54S112/SN74S112	9322	SN29322/SN74157	
9S113	SN54S113/SN74S113	SN54S113/SN74S113	93L22	SN54L157/SN74L157	SN54L157/SN74L157
9S114	SN54S114/SN74S114	SN54S114/SN74S114	93S22	SN54S157/SN74S157	SN54S157/SN74S157
9N122	SN54122/SN74122	SN54122/SN74122	9324		SN54S85/SN74S85
9N123	SN54123/SN74123	SN54123/SN74123	93L24		SN54L85/SN74L85
9N132	SN54132/SN74132	SN54132/SN74132	9325	SN74141	SN74141
9S132	SN54S132/SN74S132	SN54S132/SN74S132	9328		SN5491A/SN7491A
9S133	SN54S133/SN74S133	SN94S133/SN74S133	93L28		SN54L91/SN74L91
9S134	SN54S134/SN74S134	SN54S134/SN74S134	9334	SN54259/SN74259	SN54259/SN74259
9S135	SN54S135/SN74S135	SN54S135/SN74S135	9338		SN74172
9S140	SN54S140/SN74S140	SN54S140/SN74S140	9340		SN54S281/SN74S281
9N279	SN54279/SN74279	SN54279/SN74279	93L40		SN54LS181/SN74LS181
	SN39300/SN54195	SN54S299/SN74S299	9341	SN54181/SN74181	SN54S181/SN74S181
	SN29300/SN74195		93S41	SN54S181/SN74S181	SN54S181/SN74S181
93H00	SN54S195/SN74S195	SN54S195/SN74S195	9342	SN54182/SN74182	SN54S182/SN74S182

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<u>FSC</u>	<u>TI DIRECT</u>	<u>RECOMMENDED</u>	<u>FSC</u>	<u>TI DIRECT</u>	<u>RECOMMENDED</u>
<u>TYPE</u>	<u>REPLACEMENT</u>	<u>FOR NEW DESIGN</u>	<u>TYPE</u>	<u>REPLACEMENT</u>	<u>FOR NEW DESIGN</u>
93S42	SN54S182/SN74S182	SN54S182/SN74S182	93155	SN54155/SN74155	SN54155/SN74155
93S43		SN74S274	93156	SN54156/SN74156	SN54156/SN74156
9344		SN74S274	93157	SN54157/SN74157	SN54157/SN74157
9345	SN5445/SN7445	SN5445/SN7445	93S157	SN54S157/SN74S157	SN54S157/SN74S157
93S46		SN54S85/SN74S85	93S158	SN54S158/SN74S158	SN54S158/SN74S158
93S47		SN54S85/SN74S85	93160	SN54160/SN74160	SN54160/SN74160
9348		SN54S280/SN74S280	93161	SN54161/SN74161	SN54161/SN74161
9349	SN54180/SN74180	SN54180/SN74180	93162	SN54162/SN74162	SN54162/SN74162
9350	SN54290/SN74290	SN54290/SN74290	93163	SN54163/SN74163	SN54163/SN74163
9352	SN5442A/SN7442A	SN5442A/SN7442A	93164	SN54164/SN74164	SN54164/SN74164
9353	SN5443A/SN7443A	SN5443A/SN7443A	93165	SN54165/SN74165	SN54165/SN74165
9354	SN5444A/SN7444A	SN5444A/SN7444A	93166	SN54166/SN74166	SN54166/SN74166
9356	SN54293/SN74293	SN54293/SN74293	93170	SN54170/SN74170	SN54170/SN74170
9357A	SN5446A/SN7446A	SN5446A/SN7446A	93174	SN54174/SN74174	SN54174/SN74174
9357B	SN5447A/SN7447A	SN5447A/SN7447A	93175	SN54175/SN74175	SN54175/SN74175
9358	SN5448/SN7448	SN5448/SN7448	93S175	SN54S175/SN74S175	SN54S175/SN74S175
9359	SN5449/SN7449	SN5449/SN7449	93176	SN54176/SN74176	SN54176/SN74176
9360	SN54192/SN74192	SN54192/SN74192	93177	SN54177/SN74177	SN54177/SN74177
93S62		SN54S280/SN74S280	93178	SN54178/SN74178	SN54178/SN74178
9366	SN54193/SN74193	SN54193/SN74193	93179	SN54179/SN74179	SN54179/SN74179
9368C		SN54143/SN74143	93180	SN54180/SN74180	SN54180/SN74180
9370C		SN54144/SN74144	93H183	SN54H183/SN74H183	SN54H183/SN74H183
93H72		SN54S194/SN74S194	93190	SN54190/SN74190	SN54190/SN74190
9374C		SN54143/SN74143	93191	SN54191/SN74191	SN54191/SN74191
9375	SN5475/SN7475	SN54175/SN74175	93194	SN54194/SN74194	SN54194/SN74194
9377	SN5477/SN7477	SN54175/SN74175	93S194	SN54S194/SN74S194	SN54S194/SN74S194
9380	SN5480/SN7480	SN5480/SN7480	93195	SN54195/SN74195	SN54195/SN74195
9382	SN5482/SN7482	SN5482/SN7482	93196	SN54196/SN74196	SN54196/SN74196
9383	SN5483A/SN7483A	SN54283/SN74283	93197	SN54197/SN74197	SN54197/SN74197
9386	SN54LS266/SN74LS266	SN54LS266/SN74LS266	93198	SN54198/SN74198	SN54198/SN74198
93H87	SN54H87/SN74H87	SN54H87/SN74H87	93199	SN54199/SN74199	SN54199/SN74199
9390	SN5490A/SN7490A	SN54290/SN74290	93S251	SN54S251/SN74S251	SN54S251/SN74S251
9391	SN5491A/SN7491A	SN5491A/SN7491A	93S257	SN54S257/SN74S257	SN54S257/SN74S257
9392	SN5492A/SN7492A	SN5492A/SN7492A	93S258	SN54S258/SN74S258	SN54S258/SN74S258
9393	SN5493A/SN7493A	SN54293/SN74293	93400		SN54S201/SN74S201
9394	SN5494/SN7494	SN5494/SN7494	93403	SN54S289/SN74S289	SN54S289/SN74S289
9395	SN5495A/SN7495A	SN5495A/SN7495A	93404		SN54S289/SN74S289
9396	SN5496/SN7496	SN5496/SN7496	93405		SN54S189/SN74S189
93S137		SN54S138/SN74S138	93406	SN54187/SN74187	SN54187/SN74187
93S138	SN54S138/SN74S138	SN54S138/SN74S138	93407	SN5481A/SN7481A	SN5481A/SN7481A
93S139	SN54S139/SN74S139	SN54S139/SN74S139		SN54S300A/SN74S300A	SN54S300A/SN74S300A
93141C	SN74141	SN74141	93410	SN54S301/SN74S301	SN54S301/SN74S301
93145	SN54145/SN74145	SN54145/SN74145		SN54S200A/SN74S200A	SN54S200A/SN74S200A
93150	SN54150/SN74150	SN54150/SN74150	93411	SN54S201/SN74S201	SN54S201/SN74S201
93151	SN54151/SN74151	SN54151A/SN74151A	93412	SN54S214/SN74S214	SN54S214/SN74S214
93S151	SN54S139/SN74S139	SN54S139/SN74S139	93415A	SN54S314/SN74S314	SN54S314/SN74S314
93152	SN54152/SN74152	SN54151A/SN74151A	93415	SN54S314/SN74S314	SN54S314/SN74S314
93153	SN54153/SN74153	SN54153/SN74153	93416	SN54S387/SN74S387	SN54S387/SN74S387
93S153	SN54S153/SN74S153	SN54S153/SN74S153	93417	SN54S387/SN74S387	SN54S387/SN74S387

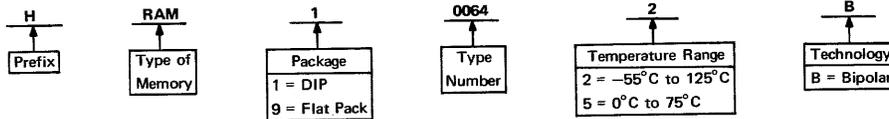
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<u>FSC</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGN</u>	<u>FSC</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGN</u>
93421	SN54S200A/SN74S200A	SN54S200A/SN74S200A	93436	SN54S270/SN74S270	SN54S270/SN74S270
	SN54S201/SN74S201	SN54S201/SN74S201	93438	SN54S475/SN74S475	SN54S475/SN74S475
93425A	SN54S214/SN74S214	SN54S214/SN74S214	93446		SN54S472/SN74S472
93425	SN54S214/SN74S214	SN54S214/SN74S214	93448	SN54S474/SN74S474	SN54S474/SN74S474
93426	SN54S287/SN74S287	SN54S287/SN74S287	9600		SN54221/SN74221
93427	SN54S287/SN74S287	SN54S287/SN74S287	9601	SN29601	SN54122/SN74122
93433	SN83433, SN93433	SN5481A/SN7481A	9602		SN54123/SN74123
93434	SN5488A/SN7488A	SN5488A/SN7488A	9603	SN54121/SN74121	SN54221/SN74221
93435	SN7489	SN7489			

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HARRIS

Example of Harris order code:



<u>HARRIS</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGNS</u>	<u>HARRIS</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGNS</u>
M 7602	SN54S188/SN74S188	SN54S188/SN74S188	M 7640	SN54S475/SN74S475	SN54S475/SN74S475
M 7603	SN54S288/SN74S288	SN54S288/SN74S288	M 7641	SN54S474/SN74S474	SN54S474/SN74S474
M 7610	SN54S387/SN74S387	SN54S387/SN74S387	RAM 1-0064	SN7489	SN7489
M 7611	SN54S287/SN74S287	SN54S287/SN74S287	PROM 1-0512	SN54186/SN74186	SN54S470/SN74S470
		SN54S470/SN74S470	PROM 1-1024	SN54S287/SN74S287	SN54S287/SN74S287
M 7620		SN54S473/SN74S473	PROM 1-1024A	SN54S387/SN74S387	SN54S387/SN74S387
		SN54S471/SN74S471	ROM 1-1024	SN54187/SN74187	SN54187/SN74187
M 7621		SN54S472/SN74S472	PROM 1-8256	SN54S188/SN74S188	SN54S188/SN74S188

INTEL

Example of Intel order code:

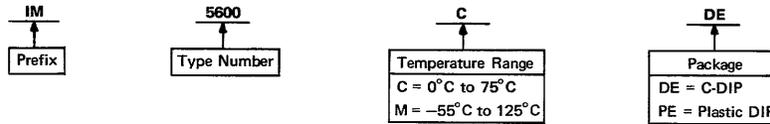


INTEL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	INTEL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
3101	SN54S289/SN74S289	SN54S289/SN74S289	3301 A	SN54187/SN74187	SN54187/SN74187
3101 A	SN54S289/SN74S289	SN54S289/SN74S289	3304		SN54S473/SN74S473
3102		SN54S200A/SN74S200A	3404 A		SN54S373/SN74S373
3106A	SN54S200A/SN74S200A	SN54S200A/SN74S200A	3601	SN54S387/SN74S387	SN54S387/SN74S387
	SN54S201/SN74S201	SN54S201/SN74S201	3604	SN54S475/SN74S475	SN54S475/SN74S475
	SN54S300A/SN74S300A	SN54S300A/SN74S300A	3621	SN54S287/SN74S287	SN54S287/SN74S287
3107A	SN54S301/SN74S301	SN54S301/SN74S301	3624	SN54S474/SN74S474	SN54S474/SN74S474
3110	SN74S214, SN74S314	SN74S214/SN74S314	8212	SN54S412/SN74S412	SN54S412/SN74S412
3205		SN54S138/SN74S138	8224	SN74LS424 (TIM8224)	SN74LS424 (TIM8224)
3212	SN54S412/SN74S412	SN54S412/SN74S412	8228	SN74S428 (TIM8228)	SN74S428 (TIM8228)
			8338	SN74S438 (TIM8238)	SN74S438 (TIM8238)

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INTERSIL

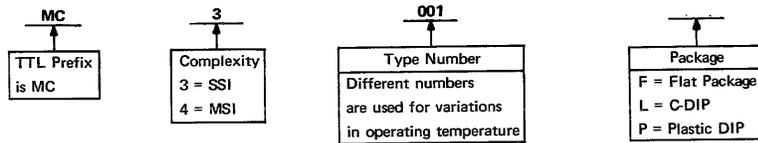
Example of Intersil ordering code:



INTERSIL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	INTERSIL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
5501	SN54S289/SN74S289	SN54S289/SN74S289	5543	SN54S300A/SN74S300A	SN54S300A/SN74S300A
5502	SN5481 A/SN7481 A	SN5481 A/SN7481 A		SN54S301/SN74S301	SN54S301/SN74S301
5503	SN54S300A/SN74S300A	SN54S300A/SN74S300A	5553	SN54S200A/SN74S200A	SN54S200A/SN74S200A
	SN54S301/SN74S301	SN54S301/SN74S301	5600	SN54S188/SN74S188	SN54S188/SN74S188
5508	SN54S214/SN74S214	SN54S214/SN74S214	5602	SN54S475/SN74S475	SN54S475/SN74S475
	SN54S314/SN74S314	SN54S314/SN74S314	5603	SN54S387/SN74S387	SN54S387/SN74S387
55S08	SN54S314/SN74S314	SN54S314/SN74S314	5604		SN54S470/SN74S470
5512	SN5481 A/SN7481 A	SN5481 A/SN7481 A	5610	SN54S288/SN74S288	SN54S288/SN74S288
55S18	SN54S214/SN74S214	SN54S214/SN74S214	5623	SN54S287/SN74S287	SN54S287/SN74S287
	SN54S200A/SN74S200A	SN54S200A/SN74S200A	5624	SN54S370/SN74S370	SN54S370/SN74S370
5523	SN54S201/SN74S201	SN54S201/SN74S201	5625	SN54S474/SN74S474	SN54S474/SN74S474
	SN54S300A/SN74S300A	SN54S300A/SN74S300A			
5533	SN54S301/SN74S301	SN54S301/SN74S301			

MOTOROLA

Example of Motorola order code:



MOTOROLA TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	MOTOROLA TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
MC3000	SN74H00	SN74S00	MC3107		SN54S15
MC3001	SN7408	SN74S11	MC3108		SN54S04
MC3002		SN74S02	MC3109	SN54H04	SN54S05
MC3003	SN7432	SN7432	MC3110	SN54H20	SN54S20
MC3004	SN74H01	SN74S03	MC3111	SN54H21	SN54S11
MC3005	SN74H10	SN74S10	MC3112	SN54H22	SN54S22
MC3006	SN74H11	SN74S11	MC3115		SN54S133, SN54S134
MC3007		SN74S15	MC3116	SN54H30	SN54S133
MC3008	SN74H04	SN74S04	MC3118	SN54H62	SN54S11
MC3009	SN74H05	SN74S05	MC3119	SN54H61	SN54S11
MC3010	SN74H20	SN74S20	MC3120	SN54H50	SN54S51
MC3011	SN74H21	SN74S11	MC3121	SN54S86	SN54S86
MC3012	SN74H22	SN74S22	MC3122		SN54S135
MC3015		SN74S133, SN74S134	MC3123	SN54H51	SN54S51
MC3016	SN74H30	SN74S133	MC3124	SN54H40	SN54S40
MC3018	SN74H62	SN74S11	MC3125	SN54H40	SN54S40
MC3019	SN74H61	SN74S11	MC3126		SN54S37, SN54S38
MC3020	SN74H50	SN74S51	MC3128		SN54S37, SN54S38
MC3021	SN74S86	SN74S86	MC3129		SN54S37, SN54S38
MC3022		SN74S135	MC3130	SN54H60	SN54S11
MC3023	SN74H51	SN74S51	MC3131	SN54H52	SN54S64
MC3024	SN74H40	SN74S40	MC3132	SN54H53	SN54S64
MC3025	SN74H40	SN74S40	MC3133	SN54H54	SN54S64
MC3026		SN74S140	MC3134	SN54H55	SN54S64
MC3028		SN74S240, SN74S241	MC3150		SN54S373, SN54S374
MC3029		SN74S240, SN74S241	MC3151		SN54S373, SN54S374
MC3030	SN74H60	SN74S11	MC3152		SN54S373, SN54S374
MC3031	SN74H52	SN74S64	MC3154	SN54H71	SN54S112
MC3032	SN74H53	SN74S64	MC3155	SN54H72	SN54S112
MC3033	SN74H54	SN74S64	MC3160	SN54H74	SN54S74
MC3034	SN74H55	SN74S64	MC3161	SN54S114	SN54S114
MC3050		SN74S373, SN74S374	MC3162	SN54S113	SN54S113
MC3051		SN74S373, SN74S374	MC3163	SN54H73	SN54S112
MC3052		SN74S373, SN74S374	MC4000		SN74S139
MC3053		SN74S374	MC4001		SN74184/SN74185A
MC3054	SN74H71	SN74S112	MC4002		SN74S139
MC3055	SN74H72	SN74S112	MC4004	SN7481A	SN7481A
MC3060	SN74H74	SN74S74	MC4005	SN7481A	SN7481A
MC3061	SN74S114	SN74S114	MC4006		SN74S138
MC3062	SN74S113	SN74S113	MC4007		SN74S139
MC3063	SN74H73	SN74S112	MC4008		SN74S280

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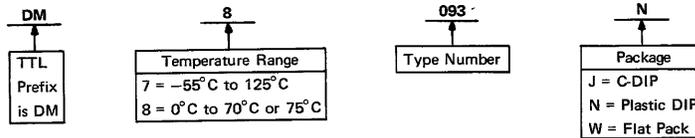
MOTOROLA

<u>MOTOROLA</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGNS</u>	<u>MOTOROLA</u> <u>TYPE</u>	<u>TI DIRECT</u> <u>REPLACEMENT</u>	<u>RECOMMENDED</u> <u>FOR NEW DESIGNS</u>
MC3100	SN54H00	SN54S00	MC4010		SN74S135
MC3101	SN5408	SN54S11	MC4012		SN74S299
MC3102		SN54S02	MC4015		SN74S195
MC3103	SN5432	SN5432	MC4016		SN74S168
MC3104	SN54H01	SN54S03	MC4017		SN74S168
MC3105	SN54H10	SN54S10	MC4018		SN74S169
MC3106	SN54H11	SN54S11	MC4019		SN74S169
MC4021		SN74S85	MC4306		SN54S138
MC4022		SN74S85	MC4307		SN54S138, SN54S139
MC4023		SN74S260	MC4308		SN54S280
MC4025		SN74S124	MC4310		SN54S280
MC4026		SN74S381	MC4316		SN54S168
MC4027		SN74S381	MC4317		SN54S168
MC4028		SN74S281	MC4318		SN54S169
MC4029		SN74S281	MC4319		SN54S169
MC4029		SN74S281	MC4324		SN54S124
MC4030		SN74S281	MC4326		SN54S381
MC4031		SN74S281	MC4327		SN54S381
MC4032		SN74S182	MC4328		SN54S281
MC4035		SN74S373, SN74S374	MC4329		SN54S281, SN54S281
MC4037		SN74S373, SN74S374	MC4330		SN54S281, SN74S381
MC4038		SN74S138	MC4331		SN54S281
MC4039		SN74S143, SN74S144	MC4332		SN54S182
MC4040		SN74S139	MC4335		SN54S373, SN54S374
MC4042		SN74S240, SN74S241	MC4337		SN54S373, SN54S374
MC4043		SN74S240, SN74S241	MC4350		SN54143
MC4048		SN74S138	MC9310	SN54160	SN54160
MC4050		SN74143	MC9311	SN54154	SN54154
MC4051		SN74144	MC9316	SN54161	SN54161
MC4062		SN74S64	MCM4002	SN7488A	SN7488A
MC4300		SN54S139	MCM4004	SN7481A	SN7481A
MC4304	SN5481A	SN5481A	MCM4005	SN7481A	SN7481A
MC4305	SN5481A	SN5481A	MCM4006	SN74S387	SN74S387

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NATIONAL

Example of National order code:



NATIONAL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	NATIONAL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
7091		SN5437	7553		SN54S163
7093	SN54125	SN54125	7554		SN54S373, SN54S374
7094	SN54126	SN54126	7555		SN54S168
7095	SN54365	SN54365	7556		SN54S169
7096	SN54366	SN54366	7560	SN54192	SN54192
7097	SN54367	SN54367	75L60	SN54L192	SN54L192
7098	SN54368	SN54368	7563	SN54193	SN54193
7121	SN54251	SN54251	75L63	SN54L193	SN54L193
71L22	SN54L157	SN54L157	7570	SN54164	SN54164
7123	SN54S257	SN54S257	7573	SN54S387	SN54S387
7130		SN54S85	7574	SN54S188	SN54S188
7131		SN54S85	7577	SN54S188	SN54S188
7136		SN5485	7578	SN54S288	SN54S288
7160		SN54S85	7582	SN54S301	SN54S301
7200		SN54S85	7588	SN54S188	SN54S188
7210		SN54151A, SN54351	7590	SN54165	SN54165
7211		SN54151A, SN54351	7594		SN54S200A
7213	SN54154	SN54154	7595	SN54S473	SN54S473
7214	SN54LS253	SN54LS253	7596		SN54S472
7219		SN54150	7597	SN54S287, SN54S370	SN54S287, SN54S370
7220		SN54S280	7598		SN54S471
7223		SN54S139	7599	SN54S189	SN54S189
7230		SN54S257	7600		SN54194
7280	SN54176	SN54176	7613		SN54376
7281	SN54177	SN54177	76L70	SN54L164	SN54L164
7283	SN5483A	SN5483A	7795		SN54S473
7288		SN5492A	7796		SN54S472
7290	SN54196	SN54196	7810	5426	5426
7291	SN54197	SN54197	7811		SN5426
7511		SN54376	7812	SN5416	SN5416
7512		SN54376	7819		SN54S240, SN54S241
7520		SN5497	7853		SN54221
7544		SN54265	7875A		SN54284
7551	SN54173	SN54173	7875B		SN54285
7552		SN54S162	8091		SN74S240, SN74S241
8093	SN74125	SN74125	8551	SN74173	SN74173
8094	SN74126	SN74126	8552		SN74S162
8095	SN74365	SN74365	8553		SN74S163
8096	SN74366	SN74366	8554		SN74S373, SN74S374
8097	SN74367	SN74367	8555		SN74S168
8098	SN74368	SN74368	8556		SN74S169

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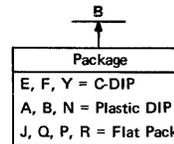
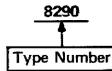
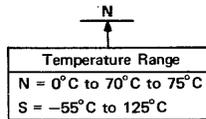
NATIONAL

NATIONAL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	NATIONAL TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
8121	SN74251	SN74251	8560	SN74192	SN74192
81L22	SN74L157	SN74L157	85L60	SN74L192	SN74LS192
8123	SN74S257	SN74S257	8563	SN74193	SN74193
8130		SN74S85	85L63	SN74L193	SN74LS193
8131		SN74S85	8570	SN74164	SN74164
8136		SN7485	8573	SN74S387	SN74S387
8160		SN74S85	8574	SN74S287	SN74S287
8200		SN74S85	8577	SN74S188	SN74S188
8210		SN74151A, SN74351	8578	SN74S288	SN74S288
8211		SN74151A, SN74351	8579	SN74164	SN74164
8213	SN74154	SN74154	8580	SN7495A	SN7495A
8214	SN74LS253	SN74LS253	8582	SN74S301	SN74S301
8219		SN74150	8588	SN7488A	SN7488A
8220		SN74S280	8590	SN74165	SN74165
8223		SN74S139	8597	SN74S287, SN74S370	SN74S287, SN74S370
8230		SN74S257	8598		SN7488A
8280	SN74176	SN74176	8599	SN74S189	SN74S189
8281	SN74177	SN74177	8640	SN74141	SN74141
8283	SN7483A	SN7483A	86L70	SN74L164	SN74L164
8288		SN7492A	8810	SN7426	SN7426
8290	SN74196	SN74196	8811		SN7426
8291	SN74197	SN74197	8812		SN7416
8296	SN74196	SN74196	8819		SN7426
8500	SN7476	SN7476	8842	SN7442A	SN7442A
8501	SN7473	SN7473	8846	SN7446A	SN7446A
8510	SN7474	SN7474	8847	SN7447A	SN7447A
8511		SN74276	8848	SN7448	SN7448
8512		SN74276	8853		SN74221
8520		SN7497	8875A		SN74S274
8530	SN7490A	SN7490A	8875B		SN74S274
8532	SN7492A	SN7492A			
8533	SN7493A	SN7493A			
8544		SN74265			

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SIGNETICS

Example of Signetics order code:



SIGNETICS TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	SIGNETICS TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
8H16		SN54S20/SN74S20	8201		SN54174/SN74174
8H20		SN54S112/SN74S112	8202		SN54174/SN74174
8H21		SN54S112/SN74S112	8203		SN54174/SN74174
8H22		SN54S112/SN74S112	8204		SN54S471/SN74S471
8H70	SN54H11/SN74H11	SN54S11/SN74S11	8205		SN54S472/SN74S472

SIGNETICS

<u>SIGNETICS</u>	<u>TI DIRECT</u>	<u>RECOMMENDED</u>	<u>SIGNETICS</u>	<u>TI DIRECT</u>	<u>RECOMMENDED</u>
<u>TYPE</u>	<u>REPLACEMENT</u>	<u>FOR NEW DESIGNS</u>	<u>TYPE</u>	<u>REPLACEMENT</u>	<u>FOR NEW DESIGNS</u>
8H80	SN54H00/SN74H00	SN54S00/SN74S00	8206	SN54S200A/SN74S200A	SN54S200A/SN74S200A
8H90	SN54H04/SN74H04	SN54S04/SN74S04		SN54S201/SN74S201	SN54S201/SN74S201
8T01		SN74141	82S06	SN54S200A/SN74S200A	SN54S200A/SN74S200A
8T04		SN547A/SN7447A		SN54S201/SN74S201	SN54S201/SN74S201
8T05		SN5448/SN7448	8207	SN54S300A/SN74S300A	SN54S300A/SN74S300A
8T06		SN54143/SN74143		SN54S301/SN74S301	SN54S301/SN74S301
8T09		SN54128/SN74128	82S07	SN54S300A/SN74S300A	SN54S300A/SN74S300A
8T10	SN54173/SN74173	SN74173		SN54S301/SN74S301	SN54S301/SN74S301
8T13		SN54128/SN74128	82S08	SN54S314/SN74S314	SN54S314/SN74S314
8T18		SN5426/SN5426	82S10	SN54S314/SN74S314	SN54S314/SN74S314
8T20		SN54121/SN74121	82S11	SN54S214/SN74S214	SN54S214/SN74S214
8T22	SN54122/SN74122	SN54122/SN74122	82S16	SN54S200A/SN74S200A	SN54S200A/SN74S200A
8T23		SN54128/SN74128		SN54S201/SN74S201	SN54S201/SN74S201
8T24			82S17	SN54S300A/SN74S300A	SN54S300A/SN74S300A
8T26		SN54125/SN74125		SN54S301/SN74S301	SN54S301/SN74S301
8T28		SN54S240/SN74S240	8223	SN54S188/SN74S188	SN54S188/SN74S188
		SN54S241/SN74S241	8224	SN5488A/SN7488A	SN5488A/SN7488A
8T51		SN54143/SN74143	8225	SN54S289/SN74S289	SN54S289/SN74S289
		SN54144/SN74144	82S25	SN54S289/SN74S289	SN54S289/SN74S289
8T54		SN54143/SN74143	82S26	SN54S387/SN74S387	SN54S387/SN74S387
		SN54144/SN74144	8228		SN54S471/SN74S471
8T59		SN54143/SN74143	82S29	SN54S287/SN74S287	SN54S287/SN74S287
		SN54144/SN74144	8230	SN39312/SN29312	SN54151A/SN74151A
8T71		SN54143/SN74143	82S30		SN54S151A/SN74S151A
		SN54144/SN74144	8231		SN54S251/SN74S251
8T74		SN54143/SN74143	82S31		SN54S151/SN74S151
		SN54144/SN74144	8232		SN54151A/SN74151A
8T75		SN54143/SN74143	82S32		SN54S151/SN74S151
		SN54144/SN74144	8233		SN54157/SN74157
8T79		SN54143/SN74143	82S33		SN54S157/SN74S157
		SN54144/SN74144	8234		SN54S258/SN74S258
8T80		SN5426/SN7426	82S34		SN54S258/SN74S258
8T90		SN5406/SN7406	8235		SN4H87/SN74H87
8T93		SN54125/SN74125	8241		SN5486/SN7486
		SN54425/SN74425	82S41		SN54S86/SN74S86
8T94		SN54125/SN74125	8242	SN54LS266/SN74LS266	SN54LS266/SN74LS266
		SN54425/SN74425	82S42		SN54S135/SN74S135
8T95		SN54365/SN74365	8243		SN54198/SN74198
8T96		SN54366/SN74366	8250		SN5442A/SN7442A
8T97		SN54367/SN74367	82S50		SN54138/SN74138
8T98		SN54368/SN74368	8252	SN39301/SN29301	SN5442A/SN7442A
8162		SN54121/SN74121	82S52		SN54S280/SN74S280
8200		SN54174/SN74174	8255	SN54S289/SN74S289	SN54S289/SN74S289
8260		SN54S281/SN74S281	82147	SN54147/SN74147	SN54147/SN74147
8261		SN54S182/SN74S182	82148	SN54148/SN74148	SN54148/SN74148
8262		SN54180/SN74180	8415		SN5420/SN7420
82S63		SN54S280/SN74S280	8416		SN5420/SN7420
8263		SN54153/SN74153	8417		SN5410/SN7410
8264		SN54153/SN74153	8424		SN54111/SN74111
8266		SN54157/SN74157	8425		SN54111/SN74111
82S66		SN54S157/SN74S157	8440		SN5450/SN7450

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SIGNETICS

SIGNETICS TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS	SIGNETICS TYPE	TI DIRECT REPLACEMENT	RECOMMENDED FOR NEW DESIGNS
8267		SN54157/SN74157	8455	SN5440/SN7440	SN5440/SN7440
8268	SN5480/SN7480	SN54181/SN74181	8470	SN5410/SN7410	SN5410/SN7410
8269		SN5485/SN7485	8471	SN5412/SN7412	SN5412/SN7412
8270	SN54178/SN74178	SN54194/SN74194	8480	SN5400/SN7400	SN5400/SN7400
82S70		SN54S299/SN74S299	8481	SN5403/SN7403	SN5403/SN7403
8271	SN54179/SN74179	SN54194/SN74194	8490	SN5404/SN7404	SN5404/SN7404
82S71		SN54S299/SN74S299	8706		SN5460/SN7460
8273		SN54198/SN74198	8731		SN5460/SN7460
8274		SN54198/SN74198	8806	SN5460/SN7460	SN5460/SN7460
8275		SN54174/SN74174	8808	SN5430/SN7430	SN5430/SN7430
8276		SN5491A/SN7491A	8815	SN5425/SN7425	SN5425/SN7425
8277		SN5491A/SN7491A	8816		SN5420/SN7420
8280	SN54176/SN74176	SN54176/SN74176	8821		SN5476/SN7476
8281	SN54177/SN74177	SN54177/SN74177	8822		SN54107/SN74107
8283		SN54S169/SN74S169	8824		SN5476/SN7476
8284		SN54S169/SN74S169	8825		SN5470/SN7470
8285		SN54S168/SN74S169	8826		SN54107/SN74107
8288		SN54163/SN74163	8827		SN5476/SN7476
8290	SN54196/SN74196	SN54196/SN74196	8828	SN5474/SN7474	SN5474/SN7474
82S90	SN54S196/SN74S196	SN54S196/SN74S196	8829	SN54110/SN74110	SN54110/SN74110
8291	SN54197/SN74197	SN54LS197/SN74LS197	8840	SN5450/SN7450	SN5450/SN7450
82S91	SN54S197/SN74S197	SN54S197/SN74S197	8848	SN54H54/SN74H74	SN54S64/SN74S64
8292	SN54LS196/SN74S196	SN54LS196/SN74LS196	8855		SN5440/SN7440
8293	SN54LS197/SN74LS197	SN54LS197/SN74LS197	8859	SN5450/SN7450	SN5450/SN7450
82S110	SN54S314/SN74S314	SN54S314/SN74S314	8870		SN5410/SN7410
82S111	SN54S214/SN74S214	SN54S214/SN74S214	8875	SN5427/SN7427	SN5427/SN7427
	SN54S200A/SN74S200A	SN54S200A/SN74S200A	8879	SN5410/SN7410	SN5410/SN7410
82S116	SN54S201/SN74S201	SN54S201/SN74S201	8880		SN5400/SN7400
	SN54S300A/SN74S300A	SN54S300A/SN74S300A	8881	SN5401/SN7401	SN5401/SN7401
82S117	SN54S301/SN74S301	SN54S301/SN74S301	8885		SN5402/SN7402
82S123	SN54S288/SN74S288	SN54S288/SN74S288	8889		SN5401/SN7401
82S124	SN54S387/SN74S387	SN54S387/SN74S387	8890	SN5404/SN7404	SN5404/SN7404
82S126	SN54S387/SN74S387	SN54S387/SN74S387	8891	SN5405/SN7405	SN5405/SN7405
82S129	SN54S287/SN74S287	SN54S287/SN74S287			
82S130	SN54170/SN74170	SN54170/SN74170			

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