

## HD-4000 SERIES MANUFACTURER CROSS REFERENCE

FUNCTION	HARRIS	RCA	NATIONAL	MOTOROLA
Dual 3 Input NOR Gate + Inverter	HD-4000	CD4000	—	MC14000
Quad 2 Input NOR	HD-4001	CD4001	MM4601	MC14001
Dual 4 Input NOR	HD-4002	CD4002	MM4602	MC14002
18 Stage Static Shift Register	HD-4006	CD4006	MM4606	MC14006
Dual Complementary Pair + Inverter	HD-4007	CD4007	—	MC14007
4-Bit Full Adder	HD-4008	CD4008	—	MC14008
Quad 2 Input NAND	HD-4011	CD4011	MM4611	MC14011
Dual 4 Input NAND	HD-4012	CD4012	MM4612	MC14012
Dual D Flip-Flop	HD-4013	CD4013	MM4613	MC14013
8 Stage Static Shift Register	HD-4014	CD4014	MM4614	MC14014
Dual 4 Static Shift Register	HD-4015	CD4015	—	MC14015
Decade Counter	HD-4017	CD4017	MM4617	MC14017
Preset/Divide by N Counter	HD-4018	CD4018	—	—
Quad AND/OR Select	HD-4019	CD4019	MM4619	—
14 Stage Binary/Ripple Counter	HD-4020	CD4020	MM4620	MC14020
8 Stage Static Shift Register	HD-4021	CD4021	MM4621	MC14021
Divide by 8 Counter	HD-4022	CD4022	MM4622	MC14022
Triple 3 Input NAND	HD-4023	CD4023	MM4623	MC14023
7 Stage Binary Counter	HD-4024	CD4024	—	MC14024
Triple 3 Input NOR	HD-4025	CD4025	MM4625	MC14025
Dual J=K Flip-Flop	HD-4027	CD4027	MM4627	MC14027
BCD/Decimal Decoder	HD-4028	CD4028	—	MC14028
Preset Up-Down Counter	HD-4029	CD4029	—	—
Quad Exclusive OR	HD-4030	CD4030	MM4630	—
4 Stage Parallel In/Parallel Out Shift Register	HD-4035	CD4035	MM4635	MC14035
12 Stage Binary/Ripple Counter	HD-4040	CD4040	—	MC14040
Quad Clocked "D" Latch	HD-4042	CD4042	—	MC14042
Quad Three State R/S Latch NOR	HD-4043	CD4043	—	—
Quad Three State NAND R/S Latch	HD-4044	CD4044	—	—
Hex Buffer, Inverting	HD-4049	CD4049	MM4649	MC14049
Hex Buffer, Non-Inverting	HD-4050	CD4050	MM4650	MC14050
Quad Bilateral Switch	HD-4066	CD4066	MM4666	MC14066

## FUNCTIONAL CROSS REFERENCE OF HD-4000 SERIES AND HD-54C/74C SERIES

FUNCTIONAL DESCRIPTION	4000 SERIES	54C/74C* SERIES
<b>ARITHMETIC FUNCTIONS</b>		
Four-Bit Binary Full Adder	HD-4008	HD-74C83
Four-Bit Magnitude Comparator	—	HD-74C85
<b>COUNTERS</b>		
7 Stage Binary	HD-4024	—
12 Stage Ripple-Carry Binary	HD-4040	—
14 Stage Ripple-Carry Binary	HD-4020	—
Decade Counter/ Divider +10 Decoded Decimal Outputs	HD-4017	—
Divide by 8 Counter/Divider with 8 Decimal Outputs	HD-4022	—
Presetable Divide by "N" Counter Fixed or Programmable	HD-4018	—
Presetable Up/Down Counter Binary or BCD Decade	HD-4029	—
Synchronous Decade	—	HD-74C160
Synchronous Binary	—	HD-74C161
Fully Synchronous Decade	—	HD-74C162
Fully Synchronous Binary	—	HD-74C163
Synchronous Up/Down Decade	CD40192 (RCA)**	HD-74C192
Synchronous Up/Down Binary	CD40193 (RCA)**	HD-74C193
<b>DECODERS/MULTIPLEXERS</b>		
Quad Bilateral Switch	HD-4066	—
BCD to Decimal Decoders	HD-4028	HD-74C42
BCD to 7 Segment Decoder	—	HD-74C48
8 Channel Digital Multiplexer	—	HD-74C151
4 Line to 16 Line	—	HD-74C154
Quad 2 Input	—	HD-74C157
<b>FLIP-FLOPS</b>		
Dual "D" with Set/Reset	HD-4013	HD-74C74
Dual "J-K" with Set/Reset	HD-4027	—
Quad Clock "D" Latch	HD-4042	—
Quad Three State NOR Reset/Set Latch	HD-4043	—
Quad Three State NAND Rest/Set Latch	HD-4044	—
Dual "J-K" Master/Slave	—	HD-74C73
Dual "J-K" Master/Slave with Preset	—	HD-74C76
Dual "J-K"	—	HD-74C107
Quad "D" Three State (Quad Latch)	CD4076 (RCA)**	HD-74C173
Hex "D"	—	HD-74C174
Quad "D"	—	HD-74C175

\*All Listed 74C Devices Are Available Also As 54C.  
\*\*Pin Compatible with 54C/74C.