

FEATURES

Symbol	Parameter	Value	Unit
V_{DD}	Supply Voltage	3 to 18	V
V_I	Input Voltage	0 to V_{DD}	V
T_{op}	Operating Temperature (HCF series)	-40 to 85	°C
I_{OL}	Output Current @ $V_{CC} = 15V$	7 (typ.) *	mA
t_{HL}	Delay time @ $V_{CC} = 5V$	65 (typ.) *	ns

* Referred to HCF4010B

HCF 400B/4500B/40100B STANDARD SERIES

Type	Description	Package
HCF4000B	Dual 3-Input NOR Gate plus Inverter	DIL14/SO14
HCF4001B	Quad 2-Input NOR Gate	DIL14/SO14
HCF4002B	Dual 4-Input NOR Gate	DIL14/SO14
HCF4006B	18-Stage Static Shift Register	DIL14/SO14
HCF4007UB	Dual Complementary Pair Plus Inverter	DIL14/SO14
HCF4008B	4-bit Full Adder	DIL16/SO16
HCF4009UB	Hex Buffer/Converters Inverting	DIL16/SO16
HCF4010B	Hex Buffer/Converters non Inverting	DIL16/SO16
HCF4011B	Quad 2-Input NAND Gate	DIL14/SO14
HCF4012B	Dual 4-Input NAND Gate	DIL14/SO14
HCF4013B	Dual D Flip-Flop	DIL14/SO14
HCF4014B	8-Stage Static Syncr. Shift Register	DIL16/SO16
HCF4015B	Dual 4-Stage Static Shift Register	DIL16/SO16
HCF4016B	Quad Bilateral Switch	DIL14/SO14
HCF4017B	Decade Counter/Divider	DIL16/SO16
HCF4018B	Presetable Divide-By N counter	DIL16/SO16
HCF4019B	Quad AND/OR Select Gate	DIL16/SO16
HCF4020B	14-Stage Binary/Ripple Counter	DIL16/SO16
HCF4021B	8-Stage Static Shift Register	DIL16/SO16
HCF4022B	Divide-By-8 Counter/Divider	DIL16/SO16
HCF4023B	Triple 3-Input NAND Gate	DIL14/SO14
HCF4024B	7-Stage Binary/Ripple Counter	DIL14/SO14
HCF4025B	Triple 3-Input NOR Gate	DIL14/SO14
HCF4026B	Decade Coun./Div. 7-Segm. Display Driver	DIL16/SO16
HCF4027B	Dual J-K Master-Slave Flip-Flop	DIL16/SO16
HCF4028B	BCD- To Decimal Decoder	DIL16/SO16
HCF4029B	Presetable Up/Down Counter	DIL16/SO16
HCF4030B	Quad Exclusive OR Gate	DIL14/SO14
HCF4031B	64-Stage Static Shift Register	DIP 16
HCF4032B (1)	Triple Serial Adder	DIL16/SO16
HCF4033B	Decade Coun./Div. 7-Segm. Display Driver	DIL16/SO16
HCF4034B (1)	8-Stage Static Bidirectional Bus Register	DIL24/SO24
HCF4035B	4-Stage Parallel I/O Shift Register	DIL16/SO16
HCF4038B (1)	Triple Serial Adder	DIL16/SO16
HCF4040B	12-Stage Binary/Ripple Counter	DIL16/SO16
HCF4041UB	Quad True/Complement Buffer	DIL14/SO14
HCF4042B	Quad Clocked D Latch	DIL16/SO16
HCF4043B	Quad 3-State NOR R/S Latch	DIL16/SO16
HCF4044B	Quad 3-State NAND R/S Latch	DIL16/SO16
HCF4045B	21-Stage Counter	DIL16/SO16
HCF4046B	Micropower Phase Locker Loop	DIP 16
HCF4047B	Monostable/Astable Multivibrator	DIL14/SO14
HCF4048B	Multifunction Expandable 8-Input Gate	DIL16/SO16
HCF4049UB	Hex Inverting Buffer/Converter	DIL16/SO16

H = ESA/SCC approved

(1) = On request

HCF 4000B/4500B/40100B STANDARD SERIES (cont'd)

Type	Description	Package
HCF4050B	H Hex Non Inverting Buffer/Converter	DIL16/SO16
HCF4051B	H Single 8-Channel Analog Multiplexer/Demultiplexer	DIL16/SO16
HCF4052B	Different 4 Channel Analog Multiplexer/Demultiplexer	DIL16/SO16
HCF4053B	H Triple 2-Channel Analog Multiplexer/Demultiplexer	DIL16/SO16
HCF4054B	4-Segment Display Driver	DIL16/SO16
HCF4055B	BCD to 7-Segment Decoder/Driver	DIL16/SO16
HCF4056B	BCD to 7-Segment Decoder/Driver	DIL16/SO16
HCF4060B	H 14-Stage Counter/Driver AND Oscillator	DIL16/SO16
HCF4063B	H 4-Bit Magnitude Comparator	DIL16/SO16
HCF4066B	H Quad Bilateral Switch	DIL14/SO14
HCF4067B	H Single 16-Channel Analog Multiplexer/Demultiplexer	DIL24/SO24
HCF4068B	H 8-Input NAND/AND Gate	DIL14/SO14
HCF4069UB	H Hex Inverter	DIL14/SO14
HCF4070B	H Quad Ex-OR Gate	DIL14/SO14
HCF4071B	H Quad 2-Input OR Gate	DIL14/SO14
HCF4072B	H Dual 4-Input OR Gate	DIL14/SO14
HCF4073B	H Triple 3-Input AND Gate	DIL14/SO14
HCF4075B	H Triple 3-Input OR Gate	DIL14/SO14
HCF4076B	H 4-Bit D-Type Register	DIL16/SO16
HCF4077B	H Quad ex-NOR Gate	DIL14/SO14
HCF4078B	H 8-Input NOR/OR Gate	DIL14/SO14
HCF4081B	H Quad 2-Input AND Gate	DIL14/SO14
HCF4082B	H Dual 4-Input AND Gate	DIL14/SO14
HCF4085B (1)	H Dual 2-Wide 2-Input AND-OR-Inverter Gate	DIL14/SO14
HCF4086B (1)	H Expand. 4-Wide 2-Input AND-OR-Inverter Gate	DIL14/SO14
HCF4089B (1)	H Binary Rate Multiplexer	DIL16
HCF4093B	H Quad 2-Input NAND Schmitt Trigger	DIL14/SO14
HCF4094B	H 8-Stage Shift-AND-Store Bus Register	DIL16/SO16
HCF4095B	Gated J-K Master-Slave Flip-Flop	DIL14/SO14
HCF4096B	Gated J-K Master-Slave Flip-Flop	DIL14/SO14
HCF4097B	Different. 8-Channel Analog Multiplexer/Demultiplexer	DIL24/SO24
HCF4098B	H Dual Monostable Multivibrator	DIL16/SO16
HCF4099B	H 8-Bit Addressable Latch	DIL16/SO16
HCF4502B	H Strobed Hex Inverter/Buffer	DIL16/SO16
HCF4503B	H Hex Buffer (3-State Non-Inverter)	DIL16/SO16
HCF4508B (1)	H Dual 4-Bit Latch (3-State Outputs)	DIL24/SO24
HCF4510B	H Presettable 4-Bit BCD Up/Down Counter	DIL16
HCF4511B	BCD to 7 Segment Latch-Decoder/Driver	DIL16/SO16
HCF4512B	H 8-Channel Data Selec. With 3-State Output	DIL16/SO16
HCF4514B	H 4-Bit Latch/4-To-16 Line Dec. (Out. High)	DIL24/SO24
HCF4515B	H 4-Bit Latch/4-To-16 Line Dec. (Out. Low)	DIL24/SO24
HCF4516B	H Presettable 4-Bit Binary Up/Down Counter	DIL16/SO16
HCF4517B	Dual 64-Stage Static Shift Register	DIL16
HCF4518B	H Dual BCD Up Counter	DIL16/SO16
HCF4519B (1)	4 Bit AND/OR Selector	DIL16/SO16
HCF4520B	H Dual Binary Up Counter	DIL16/SO16
HCF4527B	H BCD Rate Multiplier	DIL16
HCF4532B	H 8-Input Priority Encoder	DIL16/SO16
HCF4536B	Programmable Timer	DIL16
HCF4538B	Dual Precision Monostable Multivibrator	DIL16/SO16
HCF4541B	Programmable Timer	DIL14/SO14
HCF4543B	BCD-to-7 Segment Latch/Decoder/Driver	DIL16/SO16
HCF4555B	H Dual 1-Of-4 Decoder/Demultiplexer (Out. High)	DIL16/SO16
HCF4556B	H Dual 1-of-4 Decoder/Demultiplexer (Out. Low)	DIL16/SO16
HCF4585B	4-Bit Magnitude Comparator	DIL16/SO16
HCF4724B	8-Bit Addressable Latch	DIL16
HCF40100B	32-Stage Static Left/Right Shift Register	DIL16/SO16

H = ESA/SCC approved

(1) = On request

HCF 4000B/4500B/40100B STANDARD SERIES (cont'd)

Type		Description	Package
HCF40101B	H	9-Bit Parity Generator/Checker	DIL14/SO14
HCF40102B	H	Presettable 2-Decade BCD Down Counter	DIL16
HCF40103B	H	Presettable 8-Bit Binary Down Counter	DIL16
HCF40104B ⁽¹⁾	H	4-Bit Bidirectional Universal Shift Register	DIL16
HCF40105B	H	4-Bit x 16 Word	DIL16
HCF40106B	H	Hex Schmitt Trigger	DIL14/SO14
HCF40107B	H	Dual 2-Input NAND Buffer/Driver	DIL8/SO8
HCF40108B	H	4 x 4 Multiplier Register	DIL24/SO24
HCF40109B	H	Quad Low-to-High Voltage Level Shifter	DIL16/SO16
HCF40110B	H	Decade Up Down Counter/Dec./Latch/Driver	DIL16
HCF40147B ⁽¹⁾	H	10-Line to 4-Line BCD Priority Encoder	DIL16/SO16
HCF40160B ⁽¹⁾	H	Decade Counter/Asynchronous Clear	DIL16/SO16
HCF40161B	H	Binary Counter/Asynchronous Clear	DIL16/SO16
HCF40162B	H	Decade Counter/Synchronous Clear	DIL16/SO16
HCF40163B	H	Binary Counter/Synchronous Clear	DIL16/SO16
HCF40174B	H	Hex "D"	DIL16/SO16
HCF40181B ⁽¹⁾	H	4-Bit Arithmetic Logic Unit	DIL24/SO24
HCF40182B ⁽¹⁾	H	Look-Ahead Carry Generator	DIL16/SO16
HCF40192B	H	Presettable 4-Bit BCD Up/Down Counter	DIL16/SO16
HCF40193B	H	Presettable 4-Bit Binary Up/Down Counter	DIL16/SO16
HCF40194B ⁽¹⁾	H	4-Bit Bidirectional Universal Shift Register	DIL16
HCF40208B ⁽¹⁾	H	4 x 4 Multiplex Register	DIL24/SO24
HCF40257B	H	Quad 2-Line-To-1-Line Data Selector/Multiplexer	DIL16/SO16

H = ESA/SCC approved

(1) = On request

CROSSPOINT**RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Value	Unit
V_{DD}	Supply Voltage	3 to 18	V
V_I	Input Voltage	0 to V_{DD}	V
T_{op}	Operating Temperature (Plastic Pack)	-40 to 85	C
T_{op}	Operating Temperature (Ceramic Pack)	-55 to 125	C

Type	Description	Package
M22100	4 x 4 Crosspoint Switch With Contr. Memory	DIP 16
M22101	4 x 4 x 2 Crosspoint Switches With Contr. Memory	DIP 24
M22102	4 x 4 x 2 Crosspoint Switches With Contr. Memory	DIP 24