

FUNCTIONAL INDEX

			page
Analogue switches and multiplexers/demultiplexers	HEF4016B	quadruple bilateral switches	167
	HEF4051B	8-channel analogue multiplexer/demultiplexer	311
	HEF4052B	dual 4-channel analogue multiplexer/demultiplexer	319
	HEF4053B	triple 2-channel analogue multiplexer/demultiplexer	327
	HEF4066B	quadruple bilateral switches	347
	HEF4067B	16-channel analogue multiplexer/demultiplexer	355
Latches	HEF4042B	quadruple D-latch	265
	HEF4043B	quadruple R/S latch with 3-state outputs	271
	HEF4044B	quadruple R/S latch with 3-state outputs	275
	HEF4508B	dual 4-bit latch	431
	HEF4724B	8-bit addressable latch	631
Multivibrators and timers	HEF4047B	monostable/astable multivibrator	293
	HEF4528B	dual monostable multivibrator	543
	HEF4538B	dual precision monostable multivibrator	569
	HEF4541B	programmable timer	581
	HEF4753B	universal timer module	693
Arithmetic units	HEF4008B	4-bit binary full adder	135
	HEF4531B	13-input parity checker/generator	549
	HEF4532B	8-input priority encoder	553
	HEF4585B	4-bit magnitude comparator	609
Schmitt triggers	HEF4093B	quadruple 2-input NAND Schmitt trigger	401
	HEF40106B	hex Schmitt trigger	715
Memories	HEF4505B	64-bit, 1-bit per word read/write RAM	423
	HEF4720B; V	256-bit, 1-bit per word RAM	615
Special functions	HEF4046B	phase-locked loop	279
	HEF4104B	quadruple low-to-high voltage translator with 3-state outputs	415
	HEF4527B	BCD rate multiplier	535
	HEF4738V	IEC/IEEE bus interface	649
	HEF4739V	digital voltmeter circuit	657
	HEF4750V	frequency synthesizer	663
	HEF4752V	a.c. motor control circuit	689
	HEF4754V	18-element bar graph LCD driver	701
Octal circuits	HEF40244B (A)	octal buffers with 3-state outputs	799
	HEF40245B (B)	octal bus transceiver with 3-state outputs	801
	HEF40373B	octal transparent latch with 3-state outputs	803
	HEF40374B	octal D-type flip-flop with 3-state outputs	805

FUNCTIONAL INDEX

			page
NAND gates	HEF4011B	quadruple 2-input NAND gate	139
	HEF4011UB	quadruple 2-input NAND gate; unbuffered	141
	HEF4012B	dual 4-input NAND gate	149
	HEF4023B	triple 3-input NAND gate	213
	HEF4068B	8-input NAND gate	363
AND gates	HEF4073B	triple 3-input AND gate	377
	HEF4081B	quadruple 2-input AND gate	391
	HEF4082B	dual 4-input AND gate	393
NOR gates	HEF4000B	dual 3-input NOR gate and inverter	107
	HEF4001B	quadruple 2-input NOR gate	111
	HEF4001UB	quadruple 2-input NOR gate; unbuffered	113
	HEF4002B	dual 4-input NOR gate	121
	HEF4025B	triple 3-input NOR gate	219
	HEF4078B	8-input NOR gate	389
OR gates	HEF4071B	quadruple 2-input OR gate	373
	HEF4072B	dual 4-input OR gate	375
	HEF4075B	triple 3-input OR gate	379
Inverters and buffers	HEF4007UB	dual complementary pair and inverter	127
	HEF4041B	quadruple true/complement buffer	263
	HEF4049B	hex inverting buffers	307
	HEF4050B	hex non-inverting buffers	309
	HEF4069UB	hex inverter	365
	HEF4502B	strobed hex inverter/buffer	419
	HEF40097B	3-state hex non-inverting buffer	707
	HEF40098B	3-state hex inverting buffer	711
Complex gates	HEF4030B	quadruple EXCLUSIVE-OR gate	243
	HEF4070B	quadruple EXCLUSIVE-OR gate	371
	HEF4077B	quadruple EXCLUSIVE-NOR gate	387
	HEF4085B	dual 2-wide 2-input AND-OR-invert gate	395
	HEF4086B	4-wide 2-input AND-OR-invert gate	397
Flip-flops	HEF4013B	dual D-type flip-flop	151
	HEF4027B	dual JK flip-flop	221
	HEF4076B	quadruple D-type register with 3-state outputs	381
	HEF40174B	hex D-type flip-flop	761
	HEF40175B	quadruple D-type flip-flop	765
Counters	HEF4017B	5-stage Johnson counter	175
	HEF4018B	presetable divide-by-n counter	183
	HEF4020B	14-stage binary counter	193
	HEF4022B	4-stage divide-by-8 Johnson counter	205
	HEF4024B	7-stage binary counter	215
	HEF4029B	synchronous up/down counter, binary/decade counter	231
	HEF4040B	12-stage binary counter	259

FUNCTIONAL INDEX

			page
Counters (continued)	HEF4059B	programmable divide-by-n counter	335
	HEF4060B	14-stage ripple-carry binary counter/divider and oscillator	341
	HEF4510B	BCD up/down counter	439
	HEF4516B	binary up/down counter	471
	HEF4518B	dual BCD counter	489
	HEF4520B	dual binary counter	499
	HEF4521B	24-stage frequency divider	505
	HEF4522B	programmable 4-bit BCD down counter	515
	HEF4526B	programmable 4-bit binary down counter	525
	HEF4534B	real time 5-decade counter	561
	HEF4737B; V	quadruple static decade counters	641
	HEF4751V	universal divider	679
	HEF40160B	4-bit synchronous decade counter with asynchronous reset	721
	HEF40161B	4-bit synchronous binary counter with asynchronous reset	731
	HEF40162B	4-bit synchronous decade counter with synchronous reset	741
	HEF40163B	4-bit synchronous binary counter with synchronous reset	751
	HEF40192B	4-bit up/down decade counter	769
HEF40193B	4-bit up/down binary counter	777	
Registers	HEF4006B	18-stage static shift register	123
	HEF4014B	8-bit static shift register	157
	HEF4015B	dual 4-bit static shift register	163
	HEF4021B	8-bit static shift register	199
	HEF4031B	64-stage static shift register	245
	HEF4035B	4-bit universal shift register	251
	HEF4076B	quadruple D-type register with 3-state outputs	381
	HEF4094B	8-stage shift-and-store bus register	407
	HEF4517B	dual 64-bit static shift register	481
	HEF4557B	1-to-64 bit variable length shift register	603
	HEF4731B; V	quadruple 64-bit static shift register	637
	HEF40194B	4-bit bidirectional universal shift register	785
	HEF40195B	4-bit universal shift register	791
Decoders and demultiplexers	HEF4028B	1-of-10 decoder	227
	HEF4511B	BCD to 7-segment latch/decoder/driver	449
	HEF4514B	1-of-16 decoder/demultiplexer with input latches	463
	HEF4515B	1-of-16 decoder/demultiplexer with input latches	467
	HEF4543B	BCD to 7-segment latch/decoder/driver	589
	HEF4555B	dual 1-of-4 decoder/demultiplexer	595
	HEF4556B	dual 1-of-4 decoder/demultiplexer	599
Digital multiplexers	HEF4019B	quadruple 2-input multiplexer	189
	HEF4512B	8-input multiplexer with 3-state output	457
	HEF4519B	quadruple 2-input multiplexer	495
	HEF4539B	dual 4-input multiplexer	577

NUMERICAL INDEX

type number	function	category	pins	suffix *	page
HEF4531B	13-input parity checker/generator	MSI	16	D, P, T	549
HEF4532B	8-input priority encoder	MSI	16	D, P, T	553
HEF4534B	real time 5-decade counter	LSI	24	D, P	561
HEF4538B	dual precision monostable multivibrator	MSI	16	D, P, T	569
HEF4539B	dual 4-input multiplexer	MSI	16	D, P, T	577
HEF4541B	programmable timer	MSI	14	D, P, T	581
HEF4543B	BCD to 7-segment latch/decoder/driver	MSI	16	D, P, T	589
HEF4555B	dual 1-of-4 decoder/demultiplexer	MSI	16	D, P, T	595
HEF4556B	dual 1-of-4 decoder/demultiplexer	MSI	16	D, P, T	599
HEF4557B	1-to-64 bit variable length shift register	LSI	16	D, P, T	603
HEF4585B	4-bit magnitude comparator	MSI	16	D, P, T	609
HEF4720B;V	256-bit, 1-bit per word RAM	LSI	16	D, P	615
HEF4724B	8-bit addressable latch	MSI	16	D, P, T	631
HEF4731B;V	quadruple 64-bit static shift register	LSI	14	D, P	637
HEF4737B;V	quadruple static decade counters	LSI	18	D, P	641
HEF4738V	IEC/IEEE bus interface	LSI	40	P	649
HEF4739V	digital voltmeter circuit	LSI	28	P	657
HEF4750V	frequency synthesizer	LSI	28	D	663
HEF4751V	universal divider	LSI	28	D, P	679
HEF4752V	a.c. motor control circuit	LSI	28	D, P	689
HEF4753B	universal timer module	LSI	18	D, P	693
HEF4754V	18-element bar graph LCD driver	LSI	28	D, P	701
HEF40097B	3-state hex non-inverting buffer	buffers	16	D, P, T	707
HEF40098B	3-state hex inverting buffer	buffers	16	D, P, T	711
HEF40106B	hex Schmitt trigger	gates	14	D, P, T	715
HEF40160B	4-bit synchronous decade counter; asynchronous reset	MSI	16	D, P, T	721
HEF40161B	4-bit synchronous binary counter; asynchronous reset	MSI	16	D, P, T	731
HEF40162B	4-bit synchronous decade counter; synchronous reset	MSI	16	D, P, T	741
HEF40163B	4-bit synchronous binary counter; synchronous reset	MSI	16	D, P, T	751
HEF40174B	hex D-type flip-flop	MSI	16	D, P, T	761
HEF40175B	quadruple D-type flip-flop	MSI	16	D, P, T	765
HEF40192B	4-bit up/down decade counter	MSI	16	D, P, T	769
HEF40193B	4-bit up/down binary counter	MSI	16	D, P, T	777
HEF40194B	4-bit bidirectional universal shift register	MSI	16	D, P, T	785
HEF40195B	4-bit universal shift register	MSI	16	D, P, T	791
HEF40244B	octal buffers with 3-state outputs	MSI	20		799
HEF40245B	octal bus transceiver with 3-state outputs	MSI	20		801
HEF40373B	octal transparent latch with 3-state outputs	MSI	20		803
HEF40374B	octal D-type flip-flop with 3-state outputs	MSI	20		805

* Add the suffix to the type number on all orders.

D:ceramic package (DIL).

P:plastic package (DIL).

T:plastic flat pack (SO-package).

NUMERICAL INDEX

type number	function	category	pins	suffix *	page
HEF4000B	dual 3-input NOR gate and inverter	gates	14	D, P, T	107
HEF4001B	quadruple 2-input NOR gate	gates	14	D, P, T	111
HEF4001UB	quadruple 2-input NOR gate; unbuffered	gates	14	D, P, T	113
HEF4002B	dual 4-input NOR gate	gates	14	D, P, T	121
HEF4006B	18-stage static shift register	MSI	14	D, P, T	123
HEF4007UB	dual complementary pair and inverter	gates	14	D, P, T	127
HEF4008B	4-bit binary full adder	MSI	16	D, P, T	135
HEF4011B	quadruple 2-input NAND gate	gates	14	D, P, T	139
HEF4011UB	quadruple 2-input NAND gate; unbuffered	gates	14	D, P, T	141
HEF4012B	dual 4-input NAND gate	gates	14	D, P, T	149
HEF4013B	dual D-type flip-flop	flip-flops	14	D, P, T	151
HEF4014B	8-bit static shift register	MSI	16	D, P, T	157
HEF4015B	dual 4-bit static shift register	MSI	16	D, P, T	163
HEF4016B	quadruple bilateral switches	gates	14	D, P, T	167
HEF4017B	5-stage Johnson counter	MSI	16	D, P, T	175
HEF4018B	presetable divide-by-n counter	MSI	16	D, P, T	183
HEF4019B	quadruple 2-input multiplexer	MSI	16	D, P, T	189
HEF4020B	14-stage binary counter	MSI	16	D, P, T	193
HEF4021B	8-bit static shift register	MSI	16	D, P, T	199
HEF4022B	4-stage divide-by-8 Johnson counter	MSI	16	D, P, T	205
HEF4023B	triple 3-input NAND gate	gates	14	D, P, T	213
HEF4024B	7-stage binary counter	MSI	14	D, P, T	215
HEF4025B	triple 3-input NOR gate	gates	14	D, P, T	219
HEF4027B	dual JK flip-flop	flip-flops	16	D, P, T	221
HEF4028B	1-of-10 decoder	MSI	16	D, P, T	227
HEF4029B	synchronous up/down — binary/decade counter	MSI	16	D, P, T	231
HEF4030B	quadruple EXCLUSIVE-OR gate	gates	14	D, P, T	243
HEF4031B	64-stage static shift register	LSI	16	D, P, T	245
HEF4035B	4-bit universal shift register	MSI	16	D, P, T	251
HEF4040B	12-stage binary counter	MSI	16	D, P, T	259
HEF4041B	quadruple true/complement buffer	buffers	14	D, P, T	263
HEF4042B	quadruple D-latch	MSI	16	D, P, T	265
HEF4043B	quadruple R/S latch with 3-state outputs	MSI	16	D, P, T	271
HEF4044B	quadruple R/S latch with 3-state outputs	MSI	16	D, P, T	275
HEF4046B	phase-locked loop	MSI	16	D, P, T	279
HEF4047B	monostable/astable multivibrator	MSI	14	D, P, T	293
HEF4049B	hex inverting buffers	buffers	16	D, P, T	307
HEF4050B	hex non-inverting buffers	buffers	16	D, P, T	309
HEF4051B	8-channel analogue multiplexer/demultiplexer	MSI	16	D, P, T	311
HEF4052B	dual 4-channel analogue multiplexer/demultiplexer	MSI	16	D, P, T	319

* Add the suffix to the type number on all orders.

D: ceramic package (DIL).

P: plastic package (DIL).

T: plastic flat pack (SO-package).

NUMERICAL INDEX

type number	function	category	pins	suffix *	page
HEF4053B	triple 2-channel analogue multiplexer/demultiplexer	MSI	16	D, P, T	327
HEF4059B	programmable divide-by-n counter	MSI	24	D, P	335
HEF4060B	14-stage ripple-carry binary counter/divider and oscillator	MSI	16	D, P, T	341
HEF4066B	quadruple bilateral switches	gates	14	D, P, T	347
HEF4067B	16-channel analogue multiplexer/demultiplexer	MSI	24	D, P	355
HEF4068B	8-input NAND gate	gates	14	D, P, T	363
HEF4069UB	hex inverter	gates	14	D, P, T	365
HEF4070B	quadruple EXCLUSIVE-OR gate	gates	14	D, P, T	371
HEF4071B	quadruple 2-input OR gate	gates	14	D, P, T	373
HEF4072B	dual 4-input OR gate	gates	14	D, P, T	375
HEF4073B	triple 3-input AND gate	gates	14	D, P, T	377
HEF4075B	triple 3-input OR gate	gates	14	D, P, T	379
HEF4076B	quadruple D-type register with 3-state outputs	MSI	16	D, P, T	381
HEF4077B	quadruple EXCLUSIVE-NOR gate	gates	14	D, P, T	387
HEF4078B	8-input NOR gate	gates	14	D, P, T	389
HEF4081B	quadruple 2-input AND gate	gates	14	D, P, T	391
HEF4082B	dual 4-input AND gate	gates	14	D, P, T	393
HEF4085B	dual 2-wide 2-input AND-OR-invert gate	gates	14	D, P, T	395
HEF4086B	4-wide 2-input AND-OR-invert gate	gates	14	D, P, T	397
HEF4093B	quadruple 2-input NAND Schmitt trigger	gates	14	D, P, T	401
HEF4094B	8-stage shift-and-store bus register	MSI	16	D, P, T	407
HEF4104B	quadruple low to high voltage translator	MSI	16	D, P, T	415
HEF4502B	strobed hex inverter/buffer	buffers	16	D, P, T	419
HEF4505B	64-bit static read/write RAM	LSI	14	D, P	423
HEF4508B	dual 4-bit latch	MSI	24	D, P	431
HEF4510B	BCD up/down counter	MSI	16	D, P, T	439
HEF4511B	BCD to 7-segment latch/decoder/driver	MSI	16	D, P, T	449
HEF4512B	8-input multiplexer with 3-state output	MSI	16	D, P, T	457
HEF4514B	1-of-16 decoder/demultiplexer with input latches	MSI	24	D, P	463
HEF4515B	1-of-16 decoder/demultiplexer with input latches	MSI	24	D, P	467
HEF4516B	binary up/down counter	MSI	16	D, P, T	471
HEF4517B	dual 64-bit static shift register	LSI	16	D, P	481
HEF4518B	dual BCD counter	MSI	16	D, P, T	489
HEF4519B	quadruple 2-input multiplexer	MSI	16	D, P, T	495
HEF4520B	dual binary counter	MSI	16	D, P, T	499
HEF4521B	24-stage frequency divider	MSI	16	D, P, T	505
HEF4522B	programmable 4-bit BCD down counter	MSI	16	D, P, T	515
HEF4526B	programmable 4-bit binary down counter	MSI	16	D, P, T	525
HEF4527B	BCD rate multiplier	MSI	16	D, P	535
HEF4528B	dual monostable multivibrator	MSI	16	D, P, T	543

* Add the suffix to the type number on all orders.

D: ceramic package (DIL).

P: plastic package (DIL).

T: plastic flat pack (SO-package).