Integrated Circuits—High Level Logic H100 Series

HLL is a family of high threshold logic designed specifically for application in areas where noise is a hazard. A comprehensive range of gates, flip-flops, counters, decoders and level converters make this family completely self-sufficient for any system design. Devices are generally pin-compatible with the equivalent circuit in TTL, minimising board modification when converting from TTL to HLL.

THE FAMILY'S MAJOR CHARACTERISTICS

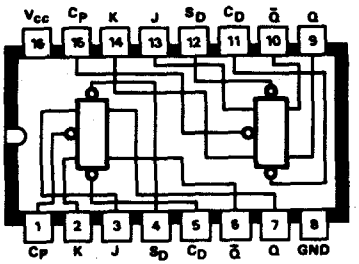
Supply voltage	from 10.8 to 20V	Standard temperature range	0°C to +70°C
Noise immunity	5V at 15V V_{cc} (typical)		
Fan-out	25 (worst case)	Package	Ceramic DIP

See **outline drawings Nos. 116 and 118** for physical dimensions

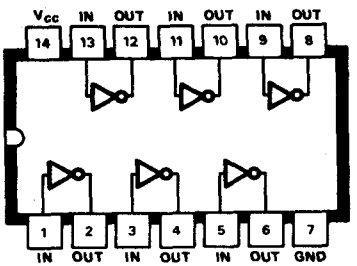
REFERENCE TABLE

Code	Function	Stock No.	Connection Diagram No.
H102D1	Quad 2-input NAND gate	**19179A**	D1
H103D1	Triple 3-input NAND gate	**19246X**	D2
H104D1	Dual 4-input NAND gate (Expandable)	**19180D**	D3
H105D1	Expandable AND-OR-INVERT gate	**33185D**	D4
H109D1	Dual 4-input AND buffer (Expandable)	**19181B**	D5
H110D1	Dual JK Flip-Flop (Separate preset)	**19182X**	D6
H111D1	Dual JK Flip-Flop (Separate preset and clear)	**19183R**	D7
H112D1	Hex inverter (Open collector)	**32478E**	D8
H113D1	Quad high to low level converter (Open collectors)	**19247R**	D9
H114D1	Quad low to high level converter	**19248G**	D10
H115D1	Strobed hex inverter (Open collector)	**32479C**	D11
H117D1	One shot multivibrator	**28918B**	D12
H118D1	Hex inverter (Active pull-up)	**32480F**	D13
H119D1	Strobed hex inverter (Active pull-up)	**32481D**	D11
H122D1	Quad 2-input NAND gate (Passive pull-up)	**19249E**	D14
H124D1	Dual 4-input NAND gate (Passive pull-up)	**19250H**	D15
H156D1	4-Bit binary counter	**31191G**	D16
H157D1	BCD decade counter	**28919X**	D16
H158D1	BCD to decimal decoder/driver	**28920C**	D17

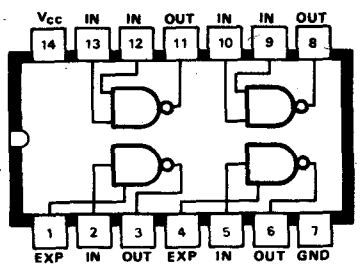
D7 **H111DI**
Dual J-K flip-flop



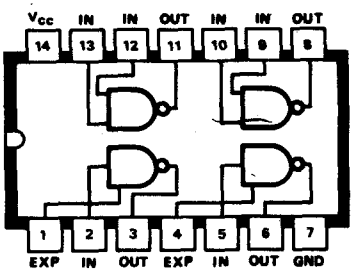
D8 **H112DI/H118DI**
Hex inverter
with open collector



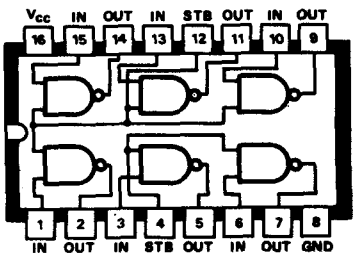
D9 **H113DI**
Quad High to Low level converter
with open collector output



D10 **H114DI**
Quad Low to High level converter



D11 **H115DI/H119DI**
Strobed hex inverter
with open collector



D12 **H117DI**
One shot multivibrator