"H" Series General Specifications

T_A=+25°C, V_{DD}= At specified voltage, CL=15 pF

		3.3 V System	5.0 V System
Frequency Range		20 kHz ~ 125 MHz	20 kHz ~ 160 MHz
Output Logic		TTL / HCMOS	TTL?/ HCMOS
Input Voltage (V_{DD})		V_{DD} = +3.3 V D.C. ±5%	V_{DD} =+5.0 V D.C.±5%
Output Voltage HIGH "1"	**TTL**	2.4 V min.	2.4 V min.
	CMOS	2.97 min.	Vcc ?0.5 min.
Output Voltage LOW "0"	**TTL**	0.4 V max.	0.4 V max.
	CMOS	0.33 max.	0.5 V max.
Operating Temperature Range		Commercial (Temperature code is "**C**"): 0°C to +70°C Industrial (Temperature code is "**I** "): -40°C to +85°C	
Frequency Stability[1]	**Commercial (0°C to +70°C) Temperature code is 舛"**	±25 ppm over 0°C to +70°C (Stability code is "**A**") ±50 ppm over 0°C to +70°C (Stability code is "**B**") ±100 ppm over 0°C to +70°C (Stability code is "**C**") If non-standard please enter the desired stability after the "**C**". For example "**C**20" represents ±20 ppm over 0 to +70°C	
	Industrial (-40°C to +85°C) Temperature code is "I"	±25 ppm over -40°C to +85°C (Stability code is "**D**") ±50 ppm over -40°C to +85°C (Stability code is "**E**") ±100 ppm over -40°C to +85°C (Stability code is "**F**") If non-standard please enter the desired stability after the "**I**". For example "**I**20" represents ±20 ppm over -40 to +85°C	
Output Load	**TTL**	2 ~ 10 TTL gates	

	CMOS	15 or 50 pF
Rise Time (Tr) and Fall Time (Tf)	**TTL**	10 n Sec. max; 3 n Sec. typical. Measured between 0.4V to 2.4V (RL=390 ohm; CL=15?pF)
	CMOS	10 n Sec. max; 3 n Sec. typical. Measured between 10% to 90%V_{DD} (CL=15 pF)
Duty Cycle		40% min. 60 % max. (measured at +1.4 V)
Start-up Time (Ts)		40% min. 60 % max. (measured at 50% V_{DD})
		10 m Sec. max. 5 m Sec. typical
Current? Consumption		15 ~ 45 mA?(frequency dependent)
Option on pin 1		Output is high impedance when "O" (<=0.8V) is applied to pin 1. Disable time is 150 n sec. max. Please add "**T**" after the stability code for this option.
Storage Temperature		-50°C to +100°C
Aging		±5 ppm per year max.

(1)Inclusive of 25°C tolerance, operating temperature range, ±10% input voltage variation, load change, aging, shock and vibration.