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Crystal Clock Oscillators



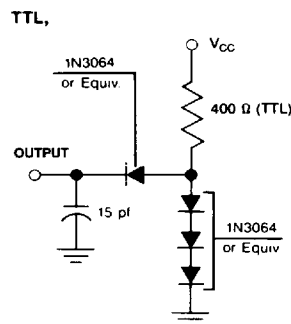
TTL Operating Conditions and Output Characteristics

		HJ-150/HJ-1510		HJ-160/HJ-1520	
PARAMETER	CONDITIONS	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
General Characteristics					
Supply voltage (V _{CC})	V _{CC} ²	4.75 V	5.25 V	4.75 V	5.25 V
	Breakdown	−0.5 V	7.0 V ¹	−0.5 V	7.0 V ¹
Supply current (I _{CC})	No output load				
	@100 MHz	0.0 mA	80 mA		
	—			0.0 mA	50 mA
Output current (I _O)	—	0.0 mA	16 mA	0.0 mA	15 mA
Operating temperature (T _A) ³	—	0° C	70° C	0° C	70° C
Storage temperature (T _S)	—	−55° C	+125° C	−55° C	+125° C
Power dissipation (P _D)	—	—	450 mW	—	400 mW
Lead temperature (T _L)	Soldering, 10s	—	300° C	—	300° C
Output Characteristics					
Frequency	—	80 MHz	150 MHz	25 MHz	80 MHz
Tolerance	User specified	±.005%	—	±.005%	—
Symmetry	@1.4 V	40/60%	60/40%	40/60%	60/40%
Logic 0 (V _{OL})	Driving equiv. load	—	0.4 V	—	0.4 V
Logic 1 (V _{OH})	Driving equiv. load	2.4 V	—	2.4 V	—
Logic 0 (I _{OL} sink)	Driving equiv. load	—	16 mA	—	16 mA
Logic 1 (I _{OH} source)	Driving equiv. load	—	400 uA	—	400 uA
Rise & fall time (t _r , t _f)	0.4 V to 2.4 V	—	3 ns	—	5 ns
3-state enable/disable time (t _{pz})	(HJ-150 & HJ-160)	N/A	N/A	N/A	N/A
	(HJ-1510 & HJ-1520)	—	25 ns	—	25 ns

Footnotes:

1. Overvoltage causes the oscillator to draw extreme current, and damage occurs.
2. Lower voltage operation option to 3 V available.
3. -55°C to +125°C available for some frequencies.

Equivalent Loads



This information is believed to be reliable at the time of printing; no responsibility is assumed for inaccuracies. NEL Frequency Controls reserves the right to make changes at any time.

Output Waveform

