

**CONNECTION DIAGRAM
PINOUT A**

9009

NAND BUFFER

ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V _{CC} = +5.0 V, ±5%, T _A = 0°C to +75°C	V _{CC} = +5.0 V ±10%, T _A = -55°C to +125°C	
Ceramic DIP (D)	A	9009DC	9009DM	6A
Flatpak (F)	A	9009FC	9009FM	3I

INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

PINS	9XXX (U.L.) HIGH/LOW
Inputs Outputs	3.0/2.0 90/26 (99)/(25.5)

DC AND AC CHARACTERISTICS OVER COMMERCIAL TEMPERATURE RANGE: V_{CC} = +5.0 V ±5%

SYMBOL	PARAMETER	0°C		25°C		UNITS	CONDITIONS
		Min	Max	Min	Max		
V _{IH}	Input HIGH Voltage	1.9		1.8		V	Guaranteed Input HIGH Threshold
V _{IL}	Input LOW Voltage			0.85		V	Guaranteed Input LOW Threshold
V _{OL}	Output LOW Voltage	0.45		0.45	0.45	V	V _{CC} = 5.25 V, I _{OL} = 48 mA, V _{IN} = 5.25 V
							V _{CC} = 4.75 V, I _{OL} = 42.3 mA, Inputs at V _{IH}
I _{IH}	Input HIGH Current			120		μA	V _{CC} = 5.25 V, V _{IN} = 4.5 V Gnd on Other Inputs
I _{IL}	Input LOW Current	-3.2		-3.2	-3.2	mA	V _{CC} = 5.25 V, V _{IN} = .45 V 5.25 V on Other Inputs
							V _{CC} = 4.75 V, V _{IN} = .45 V 5.25 V on Other Inputs
I _{CCH} I _{CL}	Power Supply Current (each gate)	ON	14.6	14.6	14.6	mA	V _{IN} = Open
		OFF	3.4	3.4	3.4		V _{IN} = Gnd
t _{PLH} t _{PHL}	Propagation Delay		3.0	17		ns	Figs. 3-1, 3-4
			2.0	13			C _L = 15 pF

9XXX Series

DC AND AC CHARACTERISTICS OVER MILITARY TEMPERATURE RANGE: V_{CC} = +5.0 V ±10%

SYMBOL	PARAMETER	-55°C		25°C		125°C		UNITS	CONDITIONS
		Min	Max	Min	Max	Min	Max		
V _{IH}	Input HIGH Voltage	2.0		1.7		1.4		V	Guaranteed Input HIGH Threshold
V _{IL}	Input LOW Voltage		0.8		0.9		0.8	V	Guaranteed Input LOW Threshold
V _{OL}	Output LOW Voltage	0.4	0.4	0.4	0.4	0.4	0.4	V	V _{CC} = 5.5 V, I _{OL} = 52.8 mA V _{IN} = 5.5 V
									V _{CC} = 4.5 V, I _{OL} = 40.8 mA, Inputs at V _{IH}
I _{IH}	Input HIGH Current			120		120		μA	V _{CC} = 5.5 V, V _{IN} = 4.5 V Gnd on Other Inputs
I _{IL}	Input LOW Current	-3.2		-3.2		-3.2		mA	V _{CC} = 5.5 V V _{IN} = 0.4 V 5.5 V on Other Inputs
		-2.48		-2.48		-2.48			V _{CC} = 4.5 V V _{IN} = 0.4 V 5.5 V on Other Inputs
ICCH ICCL	Power Supply Current (each gate)	ON	12.9		12.9		12.9	mA	V _{IN} = Open
		OFF	3.2		3.2		3.2		V _{IN} = Gnd
T _{PLH} T _{PHL}	Propagation Delay			4.0 3.0	15 10			ns	Figs. 3-1, 3-4 C _L = 15 pF