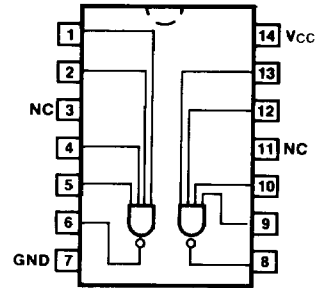


✓ 54/7420 010126
 ✓ 54H/74H20 010127
 ✓ 54S/74S20 010131
 ✓ 54LS/74LS20 010130

DUAL 4-INPUT NAND GATE

CONNECTION DIAGRAMS
 PINOUT A

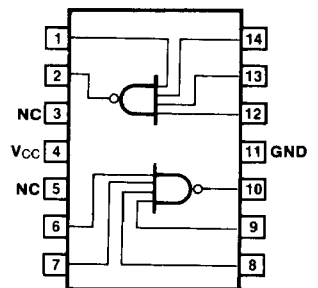


4

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 +70°C	V _{CC} = +5.0 V ±10%, T _A = -55°C to +125°C	
Plastic DIP (P)	A	7420PC, 74H20PC 74S20PC, 74LS20PC		9A
Ceramic DIP (D)	A	7420DC, 74H20DC 74S20DC, 74LS20DC	5420DM, 54H20DM 54S20DM, 54LS20DM	6A
Flatpak (F)	A	74S20FC, 74LS20FC	54S20FM, 54LS20FM	3I
	B	7420FC, 74H20FC	5420FM, 54H20FM	

PINOUT B



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

PINS	54/74 (U.L.)	54/74H (U.L.)	54/74S (U.L.)	54/74LS (U.L.)
	HIGH/LOW	HIGH/LOW	HIGH/LOW	HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	25/12.5	10/5.0 (2.5)

DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74	54/74H	54/74S	54/74LS	UNITS	CONDITIONS	
		Min Max	Min Max	Min Max	Min Max			
I _{CC} H	Power Supply	4.0	8.4	8.0	0.8	mA	V _{IN} = Gnd	V _{CC} = Max
I _{CC} L	Current	11	20	18	2.2		V _{IN} = Open	
t _{PLH}	Propagation Delay	22	10	2.0 4.5	15	ns	Figs. 3-1, 3-4	
t _{PHL}		15	10	2.0 5.0	15			

*DC limits apply over operating temperature range; AC limits apply at T_A = +25°C and V_{CC} = +5.0 V.