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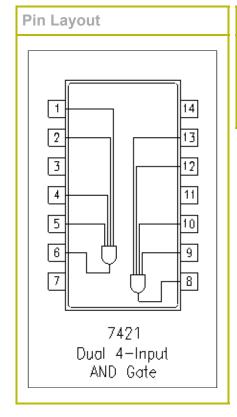


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7421 - 7421 Dual 4-input AND Gate Datasheet



Features

- ▶ Two 4-Input AND Gates in a 14-Pin DIP Package
- Outputs Directly Interface to CMOS, NMOS and TTL
- ▶ Large Operating Voltage Range
- ▶ Wide Operating Conditions
- ▶ Not Recommended for New Designs Use 74LS21

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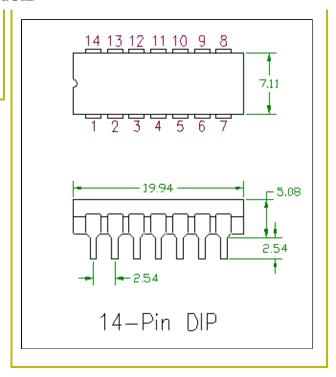
Pin Description

Pin Number	Description				
1	A Input Gate 1				
2	B Input Gate 1				
3	Not Connected				
4	C Input Gate 1				
5	D Input Gate 1				
6	Y Output Gate 1				
7	Ground				
8	Y Output Gate 2				
9	A Input Gate 2				
10 B Input Gate 2					
11	Not Connected				

Dimensional Drawing

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12	C Input Gate 2
13	D Input Gate 2
14	Vcc - Positive Supply



Technical Data

Absolute Maximum Ratings

Supply Voltage 7V Input Voltage 5.5V

Operating Free Air Temperature 0oC to +70oC Storage Temperature Range -65oC to +150oC

Recommended Operating Conditions

Symbol	Parameter	Min	Тур	Max	Units
Vcc	Supply Votage	4.75	5	5.25	V
Vih	HIGH Level Input Voltage				V
Vil	LOW Level Input Voltage			0.8	V
Ioh	HIGH Level Output Current			-0.4	mA
lol	LOW Level Output Current		16 mA		mA
Та	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Units
Vi	Input Clamp Voltage	Vcc=Min,Ii=-12mA			-1.5	V
Voh	HIGH Level Output Voltage	Vcc=Min,Ioh=MAX,ViI=MAX	2.4	3.4		٧
Vol	LOW Level Output Voltage	Vcc=Min,Iol=MAX,Vih=MAX		0.2	0.4	٧
li	Input Current@MAX Input Voltage	Vcc=Max,Vi=5.5V			1	mA
lih	HIGH Level Input Current	Vcc=Max,Vi=2.4V			40	μΑ

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lil	LOW Level Input Current	Vcc=Max,Vi=0.4V			-1.6	mA
los	Short Circuit Output Current	Vcc=Max	-18		-55	mA
Icch	Supply Current with Outputs HIGH	Vcc=Max		4	8	mA
lccl	Supply Current with Outputs LOW	Vcc=Max		12	22	mA

Switching Characteristics at Vcc=5V,Ta=25oC

Symbol	Parameter	Conditions	Min	Тур	Max	Units
tplh	Propagation Delay Time LOW-to-HIGH Level Output	CI=15pF RI=400R			22	nS
tphl	Propagation Delay Time HIGH-to-LOW Level Output	CI=15pF RI=400R			15	nS

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