

# SN74AHC00QDRG4Q1

# SN74AHC00QDRG4Q1 Information



For Reference Only

Part Number SN74AHC00QDRG4Q1

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)
Logic - Gates and Inverters

**Description** IC GATE NAND 4CH 2-INP 14-SOIC **Package** 14-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

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# SN74AHC00QDRG4Q1 Specifications

Manufacturer Part Number         SN74AHC00QDRG4Q1           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Logic - Gates and Inverters           Package         14-SOIC (0.154", 3.90mm Width)           Series         Automotive, AEC-Q100, 74AHC           Logic Type         NAND Gate           Number of Circuits         4           Number of Inputs         2           Features         -           Voltage - Supply         2 V ~ 5.5 V           Current - Quiescent (Max)         2μA           Current - Output High, Low         8mA, 8mA           Logic Level - Low         0.5 V ~ 1.65 V           Logic Level - High         1.5 V ~ 3.85 V           Max Propagation Delay @ V, Max CL         7.5ns @ 5V, 50pF           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Supplier Device Package         14-SOIC           Package / Case         14-SOIC (0.154", 3.90mm Width)		
Category Integrated Circuits (ICs)    Logic - Gates and Inverters  Package 14-SOIC $(0.154", 3.90 \text{mm Width})$ Series Automotive, AEC-Q100, 74AHC  Logic Type NAND Gate  Number of Circuits 4  Number of Inputs 2  Features - Voltage - Supply 2 $V \sim 5.5 V$ Current - Quiescent (Max) 2 $V \sim 5.5 V$ Current - Output High, Low 8 $V \sim 5.5 V$ Logic Level - Low 0.5 $V \sim 1.65 V$ Logic Level - High 1.5 $V \sim 3.85 V$ Max Propagation Delay @ V, Max CL 7.5ns @ 5V, 50pF  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Supplier Device Package 14-SOIC	Manufacturer Part Number	SN74AHC00QDRG4Q1
$\begin{array}{c} \text{Logic - Gates and Inverters} \\ \text{Package} \\ \text{Package} \\ \text{Series} \\ \text{Automotive, AEC-Q100, 74AHC} \\ \text{Logic Type} \\ \text{NAND Gate} \\ \text{Number of Circuits} \\ \text{Number of Inputs} \\ \text{Peatures} \\ \text{Voltage - Supply} \\ \text{Current - Quiescent (Max)} \\ \text{Current - Output High, Low} \\ \text{Logic Level - Low} \\ \text{Logic Level - High} \\ \text{Max Propagation Delay @ V, Max CL} \\ \text{Operating Temperature} \\ \text{Automotive, AEC-Q100, 74AHC} \\ \text{NAND Gate} \\ \text{NAND Gate} \\ \text{NAND Gate} \\ \text{Voltage - Supply} \\ \text{2 V ~ 5.5 V} \\ \text{2 V ~ 5.5 V} \\ \text{2 Urrent - Output High, Low} \\ \text{8mA, 8mA} \\ \text{Logic Level - High} \\ \text{1.5 V ~ 3.85 V} \\ \text{Max Propagation Delay @ V, Max CL} \\ \text{7.5ns @ 5V, 50pF} \\ \text{Operating Temperature} \\ \text{40°C ~ 125°C} \\ \text{Mounting Type} \\ \text{Surface Mount} \\ \text{Supplier Device Package} \\ \text{14-SOIC} \\ \end{array}$	Manufacturer	Texas Instruments
Package       14-SOIC (0.154", 3.90mm Width)         Series       Automotive, AEC-Q100, 74AHC         Logic Type       NAND Gate         Number of Circuits       4         Number of Inputs       2         Features       -         Voltage - Supply       2 V ~ 5.5 V         Current - Quiescent (Max)       2μA         Current - Output High, Low       8mA, 8mA         Logic Level - Low       0.5 V ~ 1.65 V         Logic Level - High       1.5 V ~ 3.85 V         Max Propagation Delay @ V, Max CL       7.5ns @ 5V, 50pF         Operating Temperature       -40°C ~ 125°C         Mounting Type       Surface Mount         Supplier Device Package       14-SOIC	Category	Integrated Circuits (ICs)
SeriesAutomotive, AEC-Q100, 74AHCLogic TypeNAND GateNumber of Circuits4Number of Inputs2Features-Voltage - Supply $2 \text{ V} \sim 5.5 \text{ V}$ Current - Quiescent (Max) $2\mu A$ Current - Output High, Low $8mA$ , $8mA$ Logic Level - Low $0.5 \text{ V} \sim 1.65 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 3.85 \text{ V}$ Max Propagation Delay @ V, Max CL $7.5ns$ @ $5V$ , $50pF$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SOIC}$		Logic - Gates and Inverters
Logic TypeNAND GateNumber of Circuits4Number of Inputs2Features-Voltage - Supply2 V ~ 5.5 VCurrent - Quiescent (Max)2μACurrent - Output High, Low8mA, 8mALogic Level - Low0.5 V ~ 1.65 VLogic Level - High1.5 V ~ 3.85 VMax Propagation Delay @ V, Max CL7.5ns @ 5V, 50pFOperating Temperature-40°C ~ 125°CMounting TypeSurface MountSupplier Device Package14-SOIC	Package	14-SOIC (0.154", 3.90mm Width)
Number of Circuits4Number of Inputs2Features-Voltage - Supply $2 \text{ V} \sim 5.5 \text{ V}$ Current - Quiescent (Max) $2\mu\text{A}$ Current - Output High, Low $8\text{mA}$ , $8\text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.65 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 3.85 \text{ V}$ Max Propagation Delay @ V, Max CL $7.5\text{ns}$ @ $5\text{V}$ , $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14-\text{SOIC}$	Series	Automotive, AEC-Q100, 74AHC
Number of Inputs 2  Features -  Voltage - Supply 2 $V \sim 5.5 V$ Current - Quiescent (Max) 2 $\mu$ A  Current - Output High, Low 8mA, 8mA  Logic Level - Low 0.5 $V \sim 1.65 V$ Logic Level - High 1.5 $V \sim 3.85 V$ Max Propagation Delay @ $V$ , Max CL 7.5ns @ $5V$ , $50pF$ Operating Temperature - $40^{\circ}$ C $\sim 125^{\circ}$ C  Mounting Type Surface Mount  Supplier Device Package 14-SOIC	Logic Type	NAND Gate
Features $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Number of Circuits	4
Voltage - Supply $2\ V \sim 5.5\ V$ $Current - Quiescent (Max) 2\mu A Current - Output High, Low 8mA, 8mA Logic Level - Low 0.5\ V \sim 1.65\ V Logic Level - High 1.5\ V \sim 3.85\ V Max\ Propagation\ Delay\ @\ V, Max\ CL \\ Operating\ Temperature -40^{\circ}C \sim 125^{\circ}C Mounting\ Type Surface\ Mount Supplier\ Device\ Package 14-SOIC$	Number of Inputs	2
Current - Quiescent (Max) $2\mu A$ Current - Output High, Low $8mA$ , $8mA$ Logic Level - Low $0.5 \text{ V} \sim 1.65 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 3.85 \text{ V}$ Max Propagation Delay @ V, Max CL $7.5\text{ns}$ @ $5\text{V}$ , $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SOIC}$	Features	-
Current - Output High, Low  8mA, 8mA  Logic Level - Low  0.5 V ~ 1.65 V  Logic Level - High  1.5 V ~ 3.85 V  Max Propagation Delay @ V, Max CL  7.5ns @ 5V, 50pF  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Supplier Device Package  14-SOIC	Voltage - Supply	2 V ~ 5.5 V
Logic Level - Low $0.5 \text{ V} \sim 1.65 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 3.85 \text{ V}$ Max Propagation Delay @ V, Max CL $7.5 \text{ns}$ @ $5 \text{V}$ , $50 \text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SOIC}$	Current - Quiescent (Max)	2μΑ
Logic Level - High1.5 V ~ 3.85 VMax Propagation Delay @ V, Max CL7.5ns @ 5V, 50pFOperating Temperature-40°C ~ 125°CMounting TypeSurface MountSupplier Device Package14-SOIC	Current - Output High, Low	8mA, 8mA
Max Propagation Delay @ V, Max CL7.5ns @ 5V, 50pFOperating Temperature-40°C ~ 125°CMounting TypeSurface MountSupplier Device Package14-SOIC	Logic Level - Low	0.5 V ~ 1.65 V
Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Supplier Device Package 14-SOIC	Logic Level - High	1.5 V ~ 3.85 V
Mounting Type Surface Mount Supplier Device Package 14-SOIC	Max Propagation Delay @ V, Max CL	7.5ns @ 5V, 50pF
Supplier Device Package 14-SOIC	Operating Temperature	-40°C ~ 125°C
	Mounting Type	Surface Mount
Package / Case 14-SOIC (0.154", 3.90mm Width)	Supplier Device Package	14-SOIC
	Package / Case	14-SOIC (0.154", 3.90mm Width)
Report errors?		Report errors?

## **SN74AHC00QDRG4Q1 Guarantees**



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## SN74AHC00QDRG4Q1 Payment Methods





















# SN74AHC00QDRG4Q1 Shipping Methods













If you have any question about SN74AHC00QDRG4Q1, please do not hesitate to contact us!

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