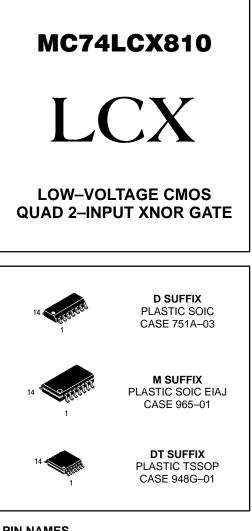
Product Preview Low-Voltage CMOS Quad **2-Input XNOR Gate** With 5V–Tolerant Inputs

The MC74LCX810 is a high performance, quad 2-input XNOR gate operating from a 2.7 to 3.6V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A V_I specification of 5.5V allows MC74LCX810 inputs to be safely driven from 5V devices.

- Current drive capability is 24mA at the outputs.
- Designed for 2.7 to 3.6V V_{CC} Operation
- 5V Tolerant Inputs Interface Capability With 5V TTL Logic
- LVTTL Compatible
- LVCMOS Compatible
- 24mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current (10µA) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500mA
- ESD Performance: Human Body Model >2000V; Machine Model >200V



Pins	Function
An, Bn	Data Inputs
On	Outputs

FUNCTION TABLE

Inputs		Outputs	
An	Bn	On	
L	L	Н	
L	н	L	
н	L	L	
Н	Н	н	

This document contains information on a new product. Specifications and information herein are subject to change without notice.

MC74LCX810

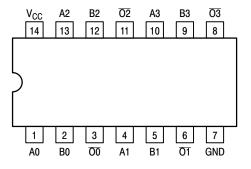
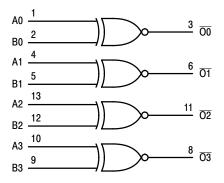


Figure 1. Pinout: 14-Lead (Top View)

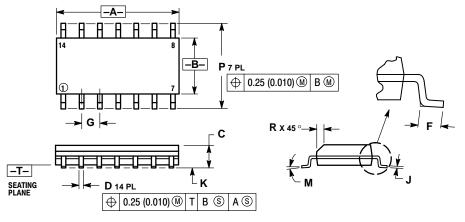




MC74LCX810

OUTLINE DIMENSIONS

D SUFFIX PLASTIC SOIC PACKAGE CASE 751A-03 ISSUE F



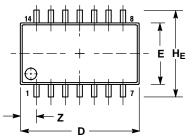
NOTES:

- DIES:
 DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
- 3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.

5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

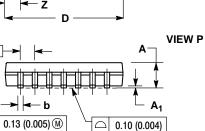
W VINION NO TENNE CONDITION.				
MILLIMETERS		INCHES		
MIN	MAX	MIN	MAX	
8.55	8.75	0.337	0.344	
3.80	4.00	0.150	0.157	
1.35	1.75	0.054	0.068	
0.35	0.49	0.014	0.019	
0.40	1.25	0.016	0.049	
1.27 BSC		0.050 BSC		
0.19	0.25	0.008	0.009	
0.10	0.25	0.004	0.009	
0 °	7°	0 °	7°	
5.80	6.20	0.228	0.244	
0.25	0.50	0.010	0.019	
	MIN 8.55 3.80 1.35 0.35 0.40 1.27 0.19 0.10 0° 5.80	MIN MAX 8.55 8.75 3.80 4.00 1.35 1.75 0.35 0.49 0.40 1.25 1.27 BSC 0.19 0.19 0.25 0.10 0.25 0° 7° 5.80 6.20	MIN MAX MIN 8.55 8.75 0.337 3.80 4.00 0.150 1.35 1.75 0.054 0.35 0.49 0.014 0.40 1.25 0.016 1.27 BSC 0.056 0.19 0.25 0.008 0.10 0.25 0.004 0° 7° 0° 5.80 6.20 0.228	

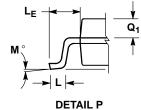
M SUFFIX PLASTIC SOIC EIAJ PACKAGE CASE 965-01 ISSUE O

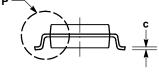


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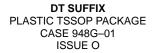


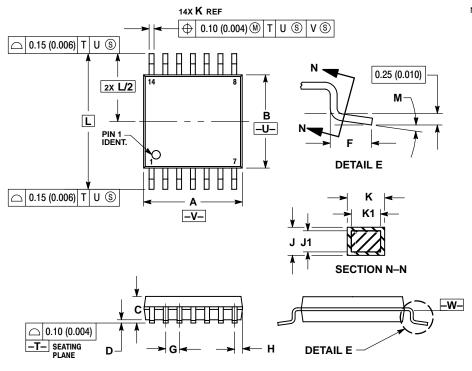
- NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- 2. 3.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE. 4. TERMINAL NUMBERS ARE SHOWN FOR
- TERMINAL NOWBERS ARE Shown FOR REFERENCE ONLY.
 THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 (0.018).

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α		2.05		0.081
A ₁	0.05	0.20	0.002	0.008
b	0.35	0.50	0.014	0.020
C	0.18	0.27	0.007	0.011
D	9.90	10.50	0.390	0.413
Ε	5.10	5.45	0.201	0.215
e	1.27 BSC		0.050 BSC	
HE	7.40	8.20	0.291	0.323
0.50	0.50	0.85	0.020	0.033
LE	1.10	1.50	0.043	0.059
М	0 °	10 °	0 °	10 °
Q ₁	0.70	0.90	0.028	0.035
Z		1.42		0.056

MC74LCX810

OUTLINE DIMENSIONS





NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
 DIMENSION A DOES NOT INCLUDE MOLD FLASH,
- CONTROLLING DIMENSION: MILLIMETER.
 DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
- (U.006) PER SIDE. 4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
- 5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION
- MATERIAL CONDITION. 6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY. 7. DIMENSION A AND B ARE TO BE DETERMINED
- DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

	MILLIN	IETERS	INCHES	
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
В	4.30	4.50	0.169	0.177
С		1.20		0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
Н	0.50	0.60	0.020	0.024
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
Г	6.40 BSC		0.252 BSC	
Μ	0°	8°	0°	8 °

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