Product Preview

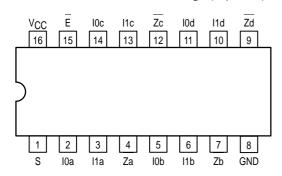
Low-Voltage CMOS Quad 2-Input Multiplexer With 5V-Tolerant Inputs (Inverting)

The MC74LCX158 is a high performance, quad 2–input inverting multiplexer 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 $_{\parallel}$ specification of 5.5V allows MC74LCX158 inputs to be safely driven from 5V devices.

Four bits of data from two sources can be selected using the Select and Enable inputs. The four outputs present the selected data in the inverted form. The MC74LCX158 can also be used as a function generator. Current drive capability is 24mA at the outputs.

- Designed for 2.7 to 3.6V VCC 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

Pinout: 16-Lead Plastic Package (Top View)



MC74LCX158



LOW-VOLTAGE CMOS QUAD 2-INPUT MULTIPLEXER



D SUFFIXPLASTIC SOIC

PLASTIC SOIC CASE 751B-05



M SUFFIX

PLASTIC SOIC EIAJ CASE 966-01



SD SUFFIX

PLASTIC SSOP CASE 940B-03



DT SUFFIXPLASTIC TSSOP
CASE 948F-01

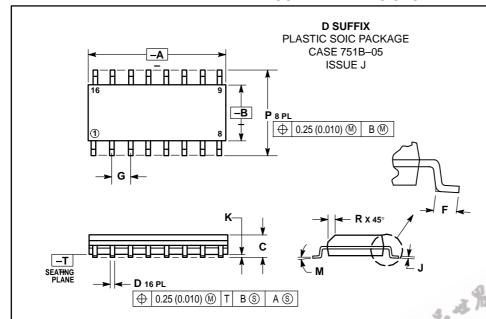
PIN NAMES

Pins	Function			
10n 11n E S Zn	Source 0 Data Inputs Source 1 Data Inputs Enable Input Select Input Outputs			

This document contains information on a product under development. Motorola reserves the right to change or discontinue this product without notice.



OUTLINE DIMENSIONS

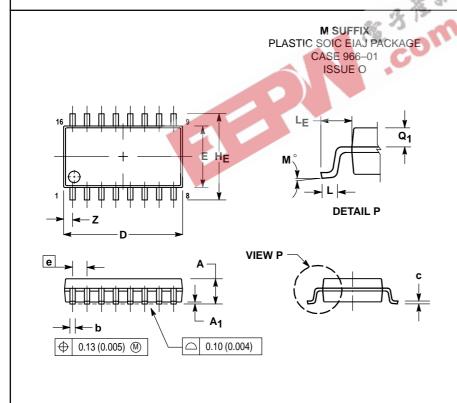


NOTES:

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

- MAXIMUM MOLD PROTRUSION 0.15 (0.006)
 PER SIDE.
 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.

	MILLIM	ETERS	INCHES	
DIM	MIN	MAX	MIN	MAX
Α	9.80	10.00	0.386	0.393
В	3.80	4.00	0.150	0.157
С	1.35	1.75	0.054	0.068
D	0.35	0.49	0.014	0.019
F	0.40	1.25	0.016	0.049
G	1.27 BSC		0.050 BSC	
J	0.19	0.25	0.008	0.009
K	0.10	0.25	0.004	0.009
М	0°	7°	0°	7°
Р	5.80	6.20	0.229	0.244
R	0.25	0.50	0.010	0.019



- 1 DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2 CONTROLLING DIMENSION: MILLIMETER.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.

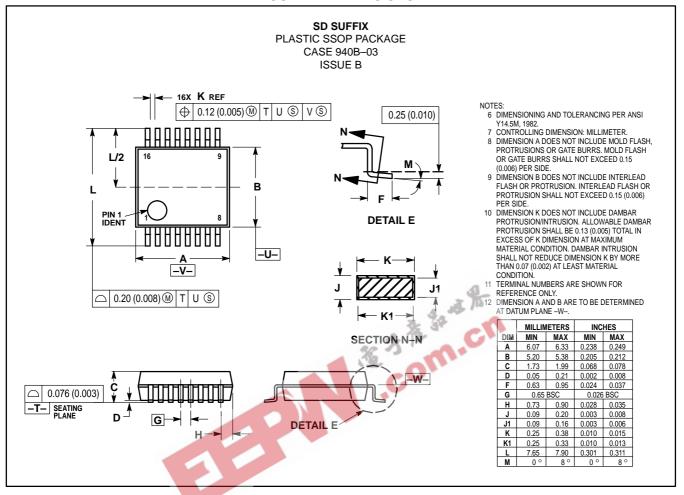
 4 TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.

 5 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 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).

MILLIN	IETERS	INCHES	
MIN	MAX	MIN	MAX
-	2.05		0.081
0.05	0.20	0.002	0.008
0.35	0.50	0.014	0.020
0.18	0.27	0.007	0.011
9.90	10.50	0.390	0.413
5.10	5.45	0.201	0.215
1.27 BSC		0.050 BSC	
7.40	8.20	0.291	0.323
0.50	0.85	0.020	0.033
1.10	1.50	0.043	0.059
0 °	10°	0 °	10 °
0.70	0.90	0.028	0.035
	0.78		0.031
	MIN 0.05 0.35 0.18 9.90 5.10 1.27 7.40 0.50 1.10 0 °	2.05 0.05 0.20 0.35 0.50 0.18 0.27 9.90 10.50 5.10 5.45 1.27 BSC 7.40 8.20 0.50 0.85 1.10 1.50 0 0 10 0 0.70 0.90	MIN MAX MIN 2.05 0.05 0.20 0.002 0.35 0.50 0.014 0.18 0.27 0.007 9.90 10.50 0.390 5.10 5.45 0.201 1.27 BSC 0.050 7.40 8.20 0.291 0.50 0.85 0.020 1.10 1.50 0.043 0 ° 10° 0 ° 0 0.70 0.90 0.028

MOTOROLA

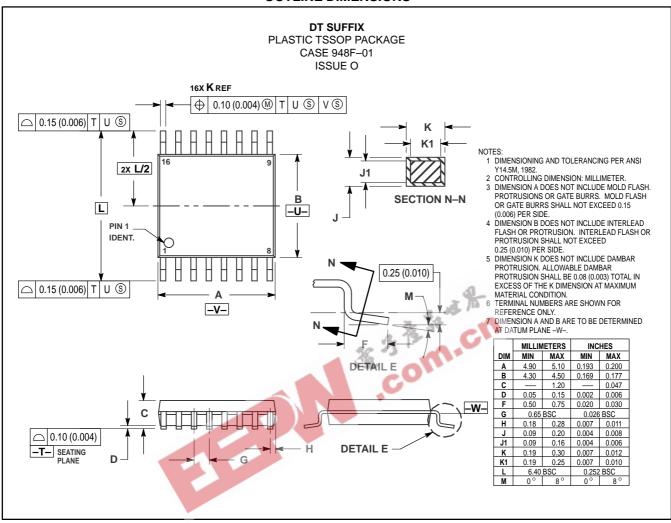
OUTLINE DIMENSIONS



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MOTOROLA

OUTLINE DIMENSIONS



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♦ MC74LCX158/D