


## Comparator Dual R-R O/P 16V 8-Pin SOIC T/R



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SOP8
<b>Product Type:</b>	Linear Displacement Sensors
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

The TLC193 and TLC393 consist of dual independent micropower voltage comparators designed to operate from a single supply. They are functionally similar to the LM393 but uses one-twentieth the power for similar response times. The open-drain MOS output stage interfaces to a variety of loads and supplies. For a similar device with a push-pull output configuration (see the TLC3702 data sheet).

Texas Instruments LinCMOS process offers superior analog performance to standard CMOS processes. Along with the standard CMOS advantages of low power without sacrificing speed, high input impedance, and low bias currents, the LinCMOS process offers ex-tremely stable input offset voltages, even with differential input stresses of several volts. This characteristic makes it possible to build reliable CMOS comparators.

The TLC393C is characterized for operation over the commercial temperature range of  $T_A = 0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ . The TLC393I is characterized for operation over the extended industrial temperature range of  $T_A = 40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ . The TLC393Q is characterized for operation over the full automotive temperature range of  $T_A = 40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The TLC193M and TLC393M are characterized for operation over the full military temperature range of  $T_A = 55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ .

### Key Features

Very Low Power...110  $\mu\text{W}$  Typ at 5 V

Fast Response Time...t

PLH

Single Supply Operation:

On-Chip ESD Protection

### Recommended For You

#### TLC27M2CP

Texas Instruments, Inc

DIP8

#### TLV3501AIDR

Texas Instruments, Inc

SOP8

#### TL071ACP

Texas Instruments, Inc

DIP-8

**TL062CDR**

Texas Instruments, Inc  
SOP8

**TLE2142IP**

Texas Instruments, Inc  
DIP8

**TLC272AID**

Texas Instruments, Inc  
SOP-8

**TLV3502AQDCNRQ1**

Texas Instruments, Inc  
SOT23-8

**TL084CD**

Texas Instruments, Inc  
SOP14

**TLV2711DBVR**

Texas Instruments, Inc  
SOT23-5

**TLC074CD**

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SOP14

**TLC2272ACD**

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SOP-8

**TLC2272AIDR**

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SOP8

**TLV2462ID**

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SOP-8

**TLV2471QDBVRQ1**

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SOT23-5

**TLV23811DBVR**

Texas Instruments, Inc  
SOT23-5