


## Comparator Single R-R I/P $\pm 18V/36V$ Automotive 5-Pin SC-70

T/R



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SC70-5
<b>Product Type:</b>	Linear Displacement Sensors
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

The TLV1701-Q1 (Single), TLV1702-Q1 (Dual) and TLV1704-Q1 (Quad) devices offers a wide supply range, rail-to-rail inputs, low quiescent current, and low propagation delay. All these features come in industry-standard, extremely-small packages, making these devices the best general-purpose comparators available.

The open collector output offers the advantage of allowing the output to be pulled to any voltage rail up to 36 V above the negative power supply, regardless of the TLV170x-Q1 supply voltage.

The device is a microPower comparator. Low input offset voltage, low input bias currents, low supply current, and open-collector configuration make the TLV170x-Q1 device flexible enough to handle almost any application, from simple voltage detection to driving a single relay.

The device is specified for operation across the expanded industrial temperature range of  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

## Key Features

Qualified for Automotive Applications

AEC Q100-Qualified With the Following Results

Device Temperature Grade 1: -40°C to +125°C Ambient Operating Temperature

Device HBM ESD Classification Level 2 (TLV1701-Q1)

Device HBM ESD Classification Level 1C (TLV1702-Q1, TLV1704-Q1)

Device CDM ESD Classification Level C6

Supply Range: 2.2 V to 36 V or ±1.1 V to ±18 V

Low Quiescent Current: 55 µA per Comparator

Input Common-Mode Range Includes Both Rails

Low Propagation Delay: 560 ns

Low Input Offset Voltage: 300 µV

Open Collector Outputs:

Up to 36 V Above Negative Supply Regardless of Supply Voltage

Industrial Temperature Range: -40°C to +125°C

Small Packages:

Single: SOT23-5 and SC-70-5

Dual: VSSOP-8

Quad: TSSOP-14

## Recommended For You

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### **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

### **TLV2711IDBVR**

Texas Instruments, Inc

SOT23-5

**TLC074CD**

Texas Instruments, Inc  
SOP14

**TLC2272ACD**

Texas Instruments, Inc  
SOP-8

**TLC2272AIDR**

Texas Instruments, Inc  
SOP8

**TLV2462ID**

Texas Instruments, Inc  
SOP-8

**TLV2471QDBVRQ1**

Texas Instruments, Inc  
SOT23-5

**TLV2381IDBVR**

Texas Instruments, Inc  
SOT23-5