


**Comparator Dual R-R I/O 5.5V Automotive 8-Pin SOT-23  
T/R**



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SOT23-8
<b>Product Type:</b>	Linear Displacement Sensors
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

**General Description**

The TLV3502-Q1 push-pull output comparators feature a fast 4.5-ns propagation delay and operation from 2.7 V to 5.5 V. Beyond-the-rails input common-mode range makes the device an ideal choice for low-voltage applications. The rail-to-rail output directly drives either CMOS or TTL logic. A microsize package provides options for portable and space-restricted applications. The TLV3502-Q1 device is available in the SOT23-8 (DCN) package.

## 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 Range

Device HBM ESD Classification Level 2

Device CDM ESD Classification Level C4B

High Speed: 4.5 ns

Rail-To-Rail I/O

Supply Voltage: 2.7 V To 5.5 V

Push-Pull CMOS Output Stage

Shutdown

Micro Package: SOT23-8

Low Supply Current: 3.2 mA

### APPLICATIONS

HEV/EV, Powertrain, and Passive Safety:  
Threshold Detector

Zero-Crossing Detector

Window Comparator

Oscillator

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## 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

**TL084CD**

Texas Instruments, Inc  
SOP14

**TLV2711HDBVR**

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**

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SOT23-5

**TLV2381HDBVR**

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SOT23-5

**TLC27L2IP**

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DIP-8