


Comparator Dual R-R O/P 30V Automotive 8-Pin SOIC T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP8
Product Type:	Linear Displacement Sensors
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The LM393B and LM2903B devices are the next generation versions of the industry-standard LM393 and LM2903 comparator family. These next generation devices provide outstanding value for cost-sensitive applications, with features including lower offset voltage, higher supply voltage capability, lower supply current, lower input bias current, lower propagation delay, and improved 2kV ESD performance with drop-in replacement convenience.

All devices consist of two independent voltage comparators that are designed to operate from a single power supply over a wide range of voltages. Operation from dual supplies also is possible as long as the difference between the two supplies is within 2 V to 36 V, and VCC is at least 1.5 V more positive than the input common-mode voltage. Current drain is independent of the supply voltage. The outputs can be connected to other open-collector outputs to achieve wired-AND relationships.

Key Features

Single-Supply or Dual Supplies

Wide range of supply voltage
Maximum rating: 2 V to 36 V

Tested to 30 V: non-V devices

Tested to 32 V: V-suffix devices

Tested to 36V: B-suffix devices

Low supply-current drain independent of supply voltage: 0.2 mA (typical) per comparator

Low input bias current: 15 nA (typical, 'B' device)

Low current: 2 nA (Typical)

Low input offset voltage: 0.37 mV (typical, 'B' device)

Common-mode input voltage range Includes Ground

Differential input voltage range equal to maximum-rated supply voltage: $\pm 36V$

Low output saturation voltage

Output compatible with TTL, MOS, and CMOS

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Recommended For You

LM311MX

Texas Instruments, Inc
SOP8

LMV7219M5

Texas Instruments, Inc
SOT23-5

LM348D

Texas Instruments, Inc
SOP-14

LM224N

Texas Instruments, Inc
DIP14

LM239J

Texas Instruments, Inc
CDIP14

LMV331M5

Texas Instruments, Inc
SOT23-5

LM393ADR

Texas Instruments, Inc
SOP8

LM293DR

Texas Instruments, Inc
SOP8

LM293D

Texas Instruments, Inc
SOP8

LMV824MIX

Texas Instruments, Inc
TSSOP

LMV358M

Texas Instruments, Inc
SOP8

LMV321M5

Texas Instruments, Inc
SOT23-5

LM741H

Texas Instruments, Inc

CAN8

LMI93AH

Texas Instruments, Inc

CAN8

LMI11H/NOPB

Texas Instruments, Inc

CAN8