

Comparator Single 5.5V 5-Pin SC-70 T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SC-70-5

Product Type: Linear Displacement Sensors

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC841 and MIC842 are micropower, precision voltage comparators with an on-chip voltage reference. Both devices are intended for voltage monitoring applications. External resistors are used to set the voltage monitor threshold. When the threshold is crossed, the outputs switch polarity. The MIC842 incorporates a voltage reference and comparator with fixed internal hysteresis; two external resistors are used to set the switching threshold voltage. The MIC841 provides a similar function with user adjustable hysteresis; this part requires three external resistors to set the upper and lower thresholds (the difference between the threshold voltages being the hysteresis voltage). Both the MIC841 and MIC842 are available with push-pull or open-drain output stage. The push-pull output stage is configured either active high or active low; the open-drain output stage is only configured active low. Supply current is extremely low (1.5µA, typical), making it ideal for portable applications. The MIC841/2 is supplied in Micrel's Teeny™ 5-pin SC-70, 6-pin 1.6mm × 1.6mm Thin DFN (MIC841), and 4-pin 1.2mm × 1.6mm Thin DFN (MIC842) packages.

Key Features

1.5V to 5.5V operating range

1.5µA typical supply current

10nA maximum input leakage current over temperature

10µs propagation delay

Externally adjustable hysteresis (MIC841)

Internal 20mV hysteresis (MIC842)

Output options

Push-pull, active high

Push-pull, active low

Open drain, active low

Open drain output can be pulled to 6V regardless of VDD

Immune to brief input transients

Teeny™ 5-pin SC-70 package

6-pin 1.6mm x 1.6mm TDFN (MIC841)

4-pin 1.2mm x 1.6mm TDFN (MIC842)

Recommended For You

MIC842LYC5-TR

Microchip Technology, Inc

SC70-5

MIC842HYMF-TR

Microchip Technology, Inc

TDFN-4

MIC842LYMF-TR

Microchip Technology, Inc

4-UDFN

MIC841NYC5-TR

Microchip Technology, Inc

SC70-5

MCP609-I/SL

Microchip Technology, Inc

SOP14

MCP602-I/P

Microchip Technology, Inc

DIP

MCP6402T-E/MNY

Microchip Technology, Inc

QFN

SY88903VKG

Microchip Technology, Inc

MSOP10

MCP607-I/P

Microchip Technology, Inc

DIP8

MCP6442-E/SN

Microchip Technology, Inc

SOP8

MCP6022-I/P

Microchip Technology, Inc

DIP8

MCP6292-E/SN

Microchip Technology, Inc

SOP8

MCP6H02-E/SN

Microchip Technology, Inc

SOP8

HV264TS-G

Microchip Technology, Inc

TSSOP24

MCP6542-E/SN

Microchip Technology, Inc

SOP-8