

Digital Potentiometer 10kOhm 100POS Non-Volatile Linear 8-Pin PDIP Tube



Images are for reference only

Manufacturer: [Renesas Technology Corp](#)

Package/Case: PDIP-8

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Obsolete

[Inquiry](#)

General Description

The X9C102, X9C103, X9C104, X9C503 are Intersil's digitally controlled (XDCP) potentiometers. The device consists of a resistor array, wiper switches, a control section, and non-volatile memory. The wiper position is controlled by a three-wire interface. The potentiometer is implemented by a resistor array composed of 99 resistive elements and a wiper switching network. Between each element and at either end are tap points accessible to the wiper terminal. The position of the wiper element is controlled by the CS, U/D, and INC inputs. The position of the wiper can be stored in non-volatile memory and then be recalled upon a subsequent power-up operation. The device can be used as a three-terminal potentiometer or as a two-terminal variable resistor in a wide variety of applications ranging from control to signal processing to parameter adjustment.

Key Features

Solid-State Potentiometer

Three-Wire Serial Interface

100 Wiper Tap Points

Wiper Position Stored in Non-volatile Memory and Recalled on Power-up

99 Resistive Elements

Temperature Compensated

End-to-End Resistance, $\pm 20\%$

Terminal Voltages, $\pm 5V$

Low Power CMOS

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Active Current, 3mA max.

Standby Current, 750 μ A max.

High Reliability

Endurance, 100,000 Data Changes per Bit

Register Data Retention, 100 years

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Packages

8 Ld SOIC

8 Ld PDIP

Pb-Free Available (RoHS Compliant)

Recommended For You

X9313WSZ

Renesas Technology Corp

SOP-8

X9C103SIZTI

Renesas Technology Corp

SOP8

X9313ZSZ

Renesas Technology Corp

SOP-8

X9314WSIZ

Renesas Technology Corp

SOP-8

X9313USZTI

Renesas Technology Corp

8-SOIC

X9317US8IZ

Renesas Technology Corp

SOP-8

X9C503SZ

Renesas Technology Corp

SOIC-8

X9317WS8IZ-2.7

Renesas Technology Corp

SOP-8

X9511WSIZ

Renesas Technology Corp

SOP-8

X9C503SIZTI

Renesas Technology Corp

SOP8

X95840WV20IZ-2.7

Renesas Technology Corp

TSSOP20

X9258TS24IZ-2.7

Renesas Technology Corp

SOP24

X9313WSZTI

Renesas Technology Corp

SOP8

X9313USZ

Renesas Technology Corp

SOP8

X9C503SIZ

Renesas Technology Corp

SOP-8