

X9250TS24IZ-2.7

Data Sheet

Digital Potentiometer 100kOhm 256POS Non-Volatile Linear 24-Pin SOIC W Tube

Manufacturers Renesas Technology Corp

Package/Case SOP-24

Product Type Data Acquisition - Digital Potentiometers

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for X9250TS24IZ-2.7 or Email to us: sales@ovaga.com We will contact you in 12 hours.

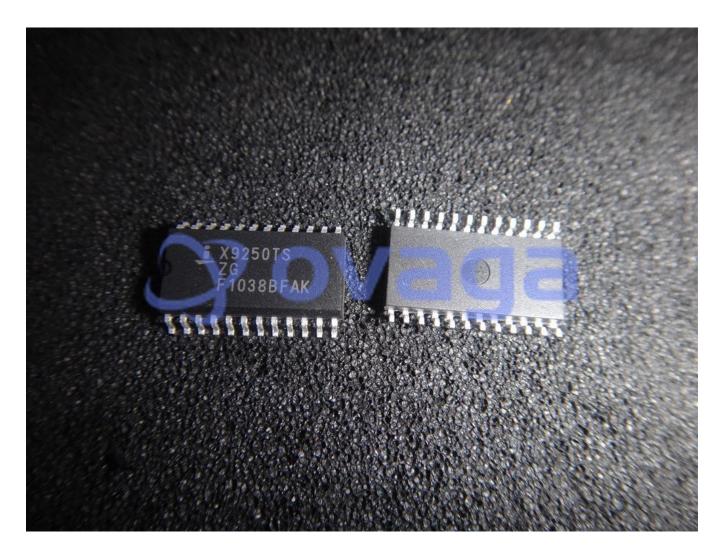
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General Description

The X9250 integrates 4 digitally controlled potentiometers (XDCP) on a monolithic CMOS integrated circuit. The digitally controlled potentiometer is implemented using 255 resistive elements in a series array. Between each element are tap points connected to the wiper terminal through switches. The position of the wiper on the array is controlled by the user through the SPI bus interface. Each potentiometer has associated with it a volatile Wiper Counter Register (WCR) and 4 nonvolatile Data Registers (DR0:DR3) that can be directly written to and read by the user. The contents of the WCR controls the position of the wiper on the resistor array though the switches. Power up recalls the contents of DR0 to the WCR. The XDCP can be used as a three-terminal potentiometer or as a two-terminal variable resistor in a wide variety of applications including control, parameter adjustments, and signal processing.

Features

| Four potentiometers in one package |
|---|
| 256 resistor taps/pot - 0.4% resolution |
| SPI serial interface |
| Wiper resistance, 40Ω typical @> |
| Four nonvolatile data registers for each pot |
| Nonvolatile storage of wiper position |
| Standby current < 5µA max (total package) |
| Power supplies |
| V+ = 2.7V to 5.5V |
| 100kΩ, 50 kΩ total pot resistance |
| High reliability |
| Endurance - 100,000 data changes per bit per register |
| Register data retention - 100 years |
| 24 Ld SOIC, 24 Ld TSSOP |
| Dual supply version of X9251 |
| Pb-free plus anneal available (RoHS compliant) |
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Related Products



X9C103SIZ

Renesas Technology Corp SOIC-8



X9258US24IZ-2.7

Renesas Technology Corp SOP24



X9241AWVZ

Renesas Technology Corp TSSOP-20



X9C102SZ

Renesas Technology Corp SOIC-8



X9C102PIZ

Renesas Technology Corp PDIP-8



X9251UV24IZ-2.7

Renesas Technology Corp TSSOP-24



X9241AWPIZ

Renesas Technology Corp DIP-20



X9C104SIZ

Renesas Technology Corp SOIC-8