Product Overview

CAT5273: Digital Potentiometer (POT), Dual 256-Tap, I2C Compatible

For complete documentation, see the data sheet.

The CAT5273 is a dual 256-position linear taper digital POT ideally suited for replacing mechanical potentiometers and variable resistors.

The wiper settings are controlled through an I^2C-compatible digital interface. Upon power-up, the wiper assumes a midscale position and may be repositioned anytime after the power is stable. The device can be programmed to go to a shutdown state during operation.

The CAT5273 operates from 2.7 V to 5.5 V, while consuming less than 2 µA. This low operating current, combined with a small package footprint, makes the CAT5273 ideal for battery-powered portable applications.

The CAT5271, designed as a pin for pin replacement for the AD5248, operates over the -40°C to +85°C industrial temperature range.

Features

- Dual 256-position
- End-to-End Resistance: 50 kΩ, 100 kΩ
- I^2C Compatible Interface
- Power-on Preset to Midscale
- Single Supply 2.7 V to 5.5 V
- Low Temperature Coefficient 100 ppm/°C
- Low Power, I_{DD} 2 A max
- Wide Operating Temperature -40°C to +85°C

Benefits

- Offers high-resolution adjustment

Applications

- Potentiometer Replacement
- Transducer Adjustment of Pressure, Temperature, Position, Chemical, and Optical Sensors
- RF Amplifier Biasing
- Gain Control and Offset Adjustment

Part Electrical Specifications

Product	Compliance	Status	# of Pots	# of Taps	Type	Control Interface	Resistance Typ (kΩ)	V_H Max (V)	Wiper Position Memory	V_{DD} Max (V)	Package Type
CAT5273ZI-50-GT3	Pb-free Halide free	Active	2	256	Potentiometer	I2C	50	VCC	No	6.5	MSOP-10

For more information please contact your local sales support at www.onsemi.com.

Created on: 5/19/2019