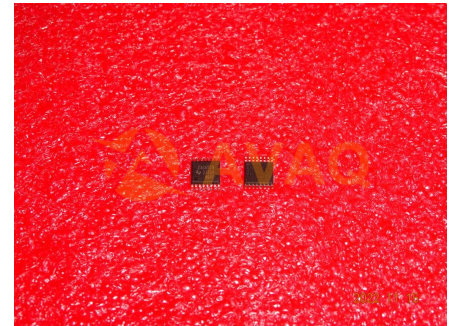


DAC 8-CH Resistor-String 10-bit 16-Pin TSSOP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	TSSOP-16
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The DAC5578 (8 bit), DAC6578 (10 bit), and DAC7578 (12 bit) are low-power, voltage-output, octal channel, digital-to-analog converters (DACs). The devices are monolithic, provide good linearity, and minimize undesired code-to-code transient voltages (glitch).

The devices use a versatile, 2-wire serial interface that is I²C-compatible and operates at clock rates of up to 3.4MHz. Multiple devices can share the same bus.

The devices incorporate a power-on-reset (POR) circuit that ensures the DAC output powers up to zero-scale or midscale until a valid code is written to the device. These devices also contain a power-down feature, accessed through the serial interface, that reduces the current consumption of the devices to typically 0.42µA at 5V. Power consumption is typically 2.32mW at 3V, reducing to 0.68µW in power-down mode. The low power consumption and small footprint make these devices ideal for portable, battery-operated equipment.

The DAC5578, DAC6578, and DAC7578 are drop-in and functionally-compatible with the DAC7678. All devices are available in a 4x4, QFN-24 package and a TSSOP-16 package.

Key Features

Relative Accuracy:

DAC5578 (8 bit): 0.25LSB INL

DAC6578 (10 bit): 0.5LSB INL

DAC7578 (12 bit): 1LSB INL

Glitch Energy: 0.15nV-s

Power-On Reset to Zero Scale or Midscale

Devices in the TSSOP Package Reset to Zero Scale

Devices in the QFN Package Reset to Zero Scale or Midscale

Ultra-Low Power Operation: 0.13mA/ch at 5V

Wide Power-Supply Range: +2.7V to +5.5V

2-Wire Serial Interface (I

2

CTM compatible)

Temperature Range: -40°C to +125°C

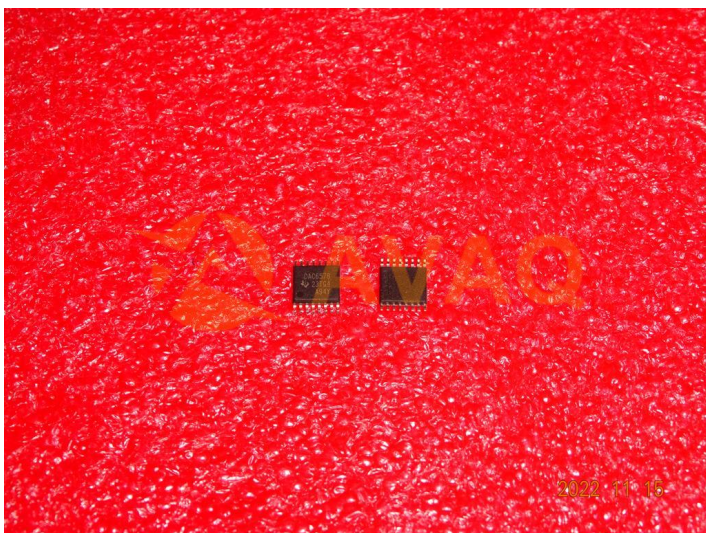
APPLICATIONS

Portable Instrumentation

Closed-Loop Servo Control

Process Control

Data Acquisition Systems



Recommended For You

DAC7802KU

Texas Instruments, Inc
SOP24

DAC122S085C1MM/NOPB

Texas Instruments, Inc
MSOP10

DAC0800LCM

Texas Instruments, Inc
SOP16

DAC1220E

Texas Instruments, Inc
SSOP16

DAC7625U

Texas Instruments, Inc
SOP28

DAC38J84IAAV

Texas Instruments, Inc
BGA

DAC8043U

Texas Instruments, Inc
SOP8

DAC7734E

Texas Instruments, Inc
SSOP48

DAC712UB

Texas Instruments, Inc
SOP28

DAC7634E

Texas Instruments, Inc
SSOP48

DAC712UK

Texas Instruments, Inc
SOP28

DAC7614UB

Texas Instruments, Inc
SOP16

DAC108S085C1MI/NOPB

Texas Instruments, Inc
TSSOP-16

DAC8164IAPW

Texas Instruments, Inc
TSSOP

DAC7573IPW

Texas Instruments, Inc
TSSOP-16