
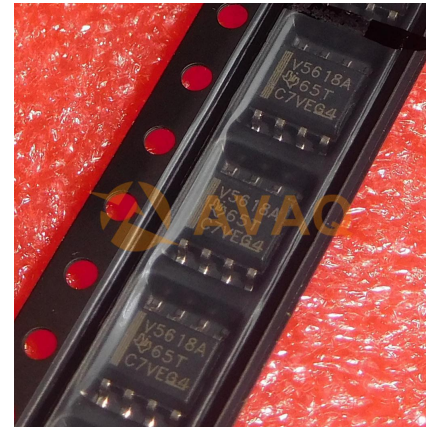


DAC 2-CH Resistor-String 12-bit Automotive 8-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOIC-8
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The TLV5618A is a dual 12-bit voltage output DAC with a flexible 3-wire serial interface. The serial interface is compatible with TMS320, SPI , QSPI , and Microwire serial ports. It is programmed with a 16-bit serial string containing 4 control and 12 data bits.

The resistor string output voltage is buffered by an x2 gain rail-to-rail output buffer. The buffer features a Class-AB output stage to improve stability and reduce settling time. The programmable settling time of the DAC allows the designer to optimize speed versus power dissipation.

Implemented with a CMOS process, the device is designed for single supply operation from 2.7 V to 5.5 V. It is available in an 8-pin SOIC package in standard commercial and industrial temperature ranges.

The TLV5618AC is characterized for operation from 0°C to 70°C. The TLV5618AI is characterized for operation from -40°C to 85°C. The TLV5618AQ is characterized for operation from -40°C to 125°C. The TLV5618AM is characterized for operation from -55°C to 125°C.

Key Features

Dual 12-Bit Voltage Output DAC

Programmable Settling Time
3 us in Fast Mode

10 us in Slow Mode

Compatible With TMS320 and SPI Serial Ports

Differential Nonlinearity <0.5 LSB Typ

Monotonic Over Temperature

Direct Replacement for TLC5618A (C and I Suffixes)

Available in Q-Temp Automotive
HighRel Automotive Applications
Configuration Control/Print Support
Qualification to Automotive Standards

applications
Digital Servo Control Loops

Digital Offset and Gain Adjustment

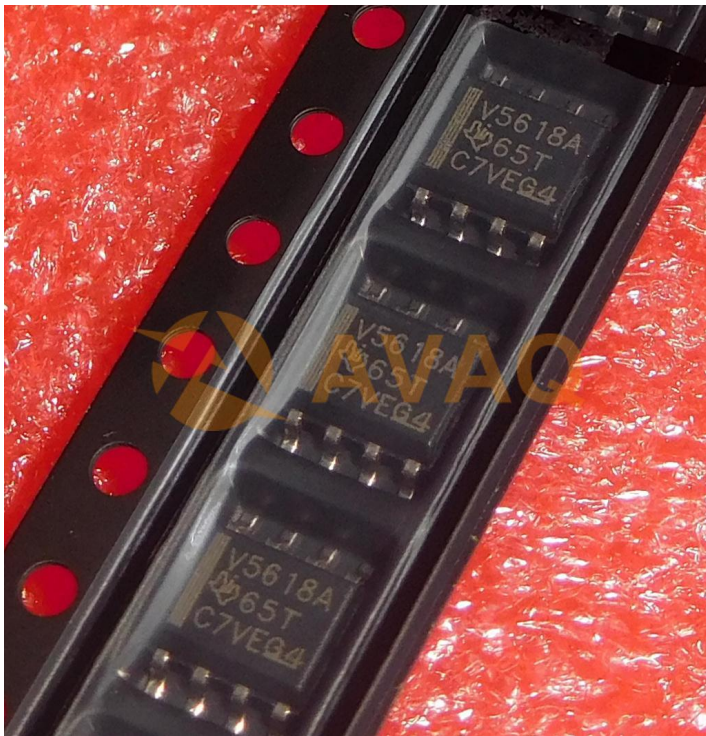
Industrial Process Control

Machine and Motion Control Devices

Mass Storage Devices

SPI and QSPI are trademarks of Motorola, Inc.

Microwire is a trademark of National Semiconductor Corporation.



Recommended For You

TLC2543CDB

Texas Instruments, Inc
SSOP20

TLC7524CD

Texas Instruments, Inc
SOP

TLC5620CN

Texas Instruments, Inc
DIP14

TLC5628CN

Texas Instruments, Inc
PDIP-16

TLC7528CN

Texas Instruments, Inc
DIP20

TLC5615CD

Texas Instruments, Inc
SOP-8

TLV2556MPWREP

Texas Instruments, Inc
SSOP20

TLC4545ID

Texas Instruments, Inc
SOIC8

TLV1543CDB

Texas Instruments, Inc
SSOP-20

TLC2543IN

Texas Instruments, Inc
DIP

TLC5540INSR

Texas Instruments, Inc
SOP24

TLV2548CDW

Texas Instruments, Inc
SOP20

TLC5510AINS

Texas Instruments, Inc
SOP24

TLC2578IDW

Texas Instruments, Inc
SOIC-24

TLC2578IPW

Texas Instruments, Inc
TSSOP-24