


Digital Potentiometer 45kOhm 64POS Volatile Log 16-Pin SOIC W

Manufacturer:	Maxim Integrated
Package/Case:	SOP16
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The DS1807 consists of two addressable potentiometers having a logarithmic resistor characteristic over the device range. Each potentiometer provides 64 wiper positions with a 1dB-per-step resolution. The device also provides greater than 90dB of attenuation in the mute position. Zero-crossing detection is a primary feature of the DS1807 allowing for pop-free wiper transitions. Wiper positions are read and controlled via a 2-wire interface, which allows up to 8 devices to be controlled on the same 2-wire bus. The DS1802 provides high-performance audio volume and tone control with processor addressability. It replaces mechanical potentiometers with digital accuracy and reliability while its low-power circuits consume very little current.

Key Features

Supply voltage range is 2.7V to 5.5V

Operating temperature range from -40°C to 85°C

2-wire addressable control interface

High performance audio volume and tone control with processor addressability

Zero-crossing detection eliminates zipper noise caused by discrete wiper changes

Data transfer in regular mode (100KHz clock rate) and fast mode (400KHz clock rate)

End to end resistance is 45Kohm at ± 20% tolerance and temperature coefficient is 750ppm/°C

Recommended For You

DS1804U-100+

Maxim Integrated

MSOP8

DS1881E-050+

Maxim Integrated

TSSOP16

DS1804Z-050+

Maxim Integrated

SOP-8

DS3904U-020+

Maxim Integrated

MSOP8

DS1804-100+

Maxim Integrated

DIP8

DS1267BS-010+

Maxim Integrated

SOP

DS1804-010+

Maxim Integrated

Correctoriginal

DS18030-010+

Maxim Integrated

SMDSMT

DS1809-010+

Maxim Integrated

franchised

DS3902U-530+

Maxim Integrated

MSOP8

DS1856B-050/T&R

Maxim Integrated

CSBGA-1

DS3930E+T&R

Maxim Integrated

TSSOP-20

DS1806E-050+

Maxim Integrated

TSSOP20

DS1856B-020+

Maxim Integrated

CSBGA

DS1841N+

Maxim Integrated

10TDFN-EP