
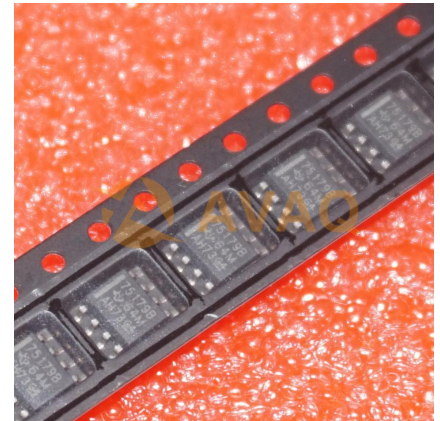


Single Transmitter/Receiver RS-422/RS-485 8-Pin SOIC T/R

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	SOP-8
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The LM4132 family of precision voltage references performs comparable to the best laser-trimmed bipolar references, but in cost-effective CMOS technology. The key to this breakthrough is the use of EEPROM registers for correction of curvature, temperature coefficient (tempco), and accuracy on a CMOS band-gap architecture allowing package-level programming to overcome assembly shift. The shifts in voltage accuracy and tempco during assembly of die into plastic packages limit the accuracy of references trimmed with laser techniques.

Unlike other LDO references, the LM4132 can deliver up to 20 mA and does not require an output capacitor or buffer amplifier. These advantages along with the SOT-23 packaging are important for space-critical applications.

Series references provide lower power consumption than shunt references, because they do not have to idle the maximum possible load current under no-load conditions. This advantage, the low quiescent current (60 μ A), and the low dropout voltage (400 mV) make the LM4132 ideal for battery-powered solutions.

The LM4132 is available in five grades (A, B, C, D and E) for greater flexibility. The best grade devices (A) have an initial accuracy of 0.05% with a specified temperature coefficient of 10 ppm/ $^{\circ}$ C or less, while the lowest grade devices (E) have an initial accuracy of 0.5% and a tempco of 30 ppm/ $^{\circ}$ C.

Key Features

Qualified for Automotive Applications

AEC-Q100 Qualified With the Following Results:

Device Temperature Grade 1: -40°C to $+125^{\circ}\text{C}$ Ambient Operating Temperature Range

Device HBM ESD Classification Level 2

Output Initial Voltage Accuracy: 0.05%

Low Temperature Coefficient: 10 ppm/ $^{\circ}\text{C}$

Low Supply Current: 60 μA

Enable Pin Allowing a 3- μA Shutdown Mode

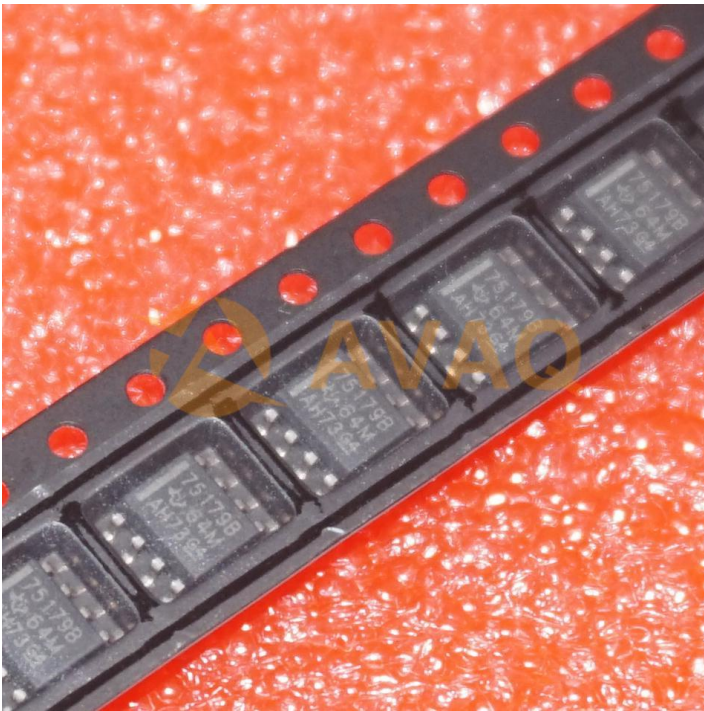
20-mA Output Current

Voltage Options: 1.8 V, 2.048 V, 2.5 V, 3 V, 3.3 V, 4.096 V

Custom Voltage Options Available (1.8 V to 4.096 V)

V_{IN} Range of $V_{\text{REF}} + 400\text{ mV}$ to 5.5 V at 10 mA

Stable With Low-ESR Ceramic Capacitors



Recommended For You

SN65LV1224BDBR

Texas Instruments, Inc

SSOP28

SN75173N

Texas Instruments, Inc

DIP

SN65LBC179D

Texas Instruments, Inc

SOP8

SN75176AD

Texas Instruments, Inc
SOP-8

SN65LVDS3486D

Texas Instruments, Inc
SOP-16

SN65HVD33MDREP

Texas Instruments, Inc
SOP-14

SN65LVDS3487D

Texas Instruments, Inc
SOP16

SN65LBC175AD

Texas Instruments, Inc
SOP-16

SN65LVDS31PW

Texas Instruments, Inc
TSSOP-16

SN75176AP

Texas Instruments, Inc
DIP8

SN65LVDS33D

Texas Instruments, Inc
SOP-16

SN65LVDS32D

Texas Instruments, Inc
SOP-16

SN65LVDS31D

Texas Instruments, Inc
SOP

SN75175D

Texas Instruments, Inc
SOP

SN75175N

Texas Instruments, Inc
DIP