

## V-Ref Precision 3.3V 20mA 8-Pin SOIC N Tube



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[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** SOIC-8

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The MCP1501 is a high-precision buffered voltage reference with an initial accuracy of 0.10% and is available in 8 voltage options. The MCP1501 is a low-drift bandgap-based reference and uses chopper-based amplifiers which significantly reduces the drift and provides high current output. The MCP1501 is available in a very small 2x2 WDFN package, as well as the SOT-23 and SOIC packages.

### Key Features

Supply voltage range from 3.5V to 5.5V

Output voltage range from 3.2975V to 3.3025V

Maximum supply current of 550µA at no load, low typical operating current of 140µA

Power-on-reset release voltage is 1.45V and power-on-reset rearm voltage is 0.8V

Temperature coefficient is ±50ppm/°C (max) and ±10ppm/°C (typ) from -40°C to +125°C

Operating temperature range from -40°C to +125°C

Maximum line regulation of 50ppm/V at VDD(MIN) < VDD < 5.5V

Output noise is < 0.1µV<sub>P-P</sub> at (0.1Hz to 10Hz)

### Application

Power Management, Industrial

### Recommended For You

#### MCP1416T-E/OT

Microchip Technology, Inc

SOT23-5

#### MCP1825S-1802E/DB

Microchip Technology, Inc

SOT-223

#### MCP1525T-I/TT

Microchip Technology, Inc

SOT23-3

**MCP73831T-2ACI/OT**

Microchip Technology, Inc  
SOT23-5

**MCP1253-ADJI/MS**

Microchip Technology, Inc  
MSOP8

**MCP1700-3302E/TO**

Microchip Technology, Inc  
TO-92

**MCP73832T-2ATI/OT**

Microchip Technology, Inc  
SOT23-5

**MCP120-450DI/TO**

Microchip Technology, Inc  
TO-92

**MCP1525-I/TO**

Microchip Technology, Inc  
TO92

**MCP1541T-I/TF**

Microchip Technology, Inc  
SOT23-3

**MCP73831T-2DCI/OT**

Microchip Technology, Inc  
SOT23-5

**MCP16311T-E/MS**

Microchip Technology, Inc  
MSOP8

**MCP16331T-E/CH**

Microchip Technology, Inc  
SOT23-6

**MCP1754ST-5002E/CB**

Microchip Technology, Inc  
SOT-23

**MCP1754ST-3302E/CB**

Microchip Technology, Inc  
SOT-23