



#### MCP1501T-18E/RW Information



For Reference Only

Part Number MCP1501T-18E/RW

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Voltage Reference

DescriptionIC VREF SERIES 1.8VPackage8-WFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **Certified Quality**

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# MCP1501T-18E/RW Specifications

| Manufacturer Part Number         MCP1501T-18E/RW           Manufacturer         Microchip Technology           Category         Integrated Circuits (ICs)           Package         8-WFDFN Exposed Pad           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         1.8V           Voltage - Output (Max)         -           Current - Output         20mA           Tolerance         ±0.08%           Temperature Coefficient         50ppm/°C           Noise - 0.1Hz to 10Hz         -           Noise - 10Hz to 10kHz         -           Voltage - Input         2 V ~ 5.5 V           Current - Supply         550μA           Current - Cathode         -           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         8-WFDFN Exposed Pad           Supplier Device Package         8-WDFN (2x2) |                              |                           |
|---|------------------------------|---------------------------|
| Category         Integrated Circuits (ICs)           PMIC - Voltage Reference           Package         8-WFDFN Exposed Pad           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         1.8V           Voltage - Output (Max)         -           Current - Output         20mA           Tolerance         ±0.08%           Temperature Coefficient         50ppm/°C           Noise - 0.1Hz to 10Hz         -           Noise - 10Hz to 10kHz         -           Voltage - Input         2 V ~ 5.5 V           Current - Supply         550μA           Current - Cathode         -           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         8-WFDFN Exposed Pad           Supplier Device Package         8-WDFN (2x2)   | Manufacturer Part Number     | MCP1501T-18E/RW           |
| Package         8-WFDFN Exposed Pad           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         1.8V           Voltage - Output (Max)         -           Current - Output         20mA           Tolerance         ±0.08%           Temperature Coefficient         50ppm/°C           Noise - 0.1Hz to 10Hz         -           Noise - 10Hz to 10kHz         2 V ~ 5.5 V           Current - Supply         550µA           Current - Cathode         -           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         8-WFDFN Exposed Pad           Supplier Device Package         8-WDFN (2x2)   | Manufacturer                 | Microchip Technology      |
| Package         8-WFDFN Exposed Pad           Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         1.8V           Voltage - Output (Max)         -           Current - Output         20mA           Tolerance         ±0.08%           Temperature Coefficient         50ppm/°C           Noise - 0.1Hz to 10Hz         -           Noise - 10Hz to 10kHz         2 V ~ 5.5 V           Current - Supply         550μA           Current - Cathode         -           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         8-WFDFN Exposed Pad           Supplier Device Package         8-WDFN (2x2)   | Category                     | Integrated Circuits (ICs) |
| Series         -           Reference Type         Series           Output Type         Fixed           Voltage - Output (Min/Fixed)         1.8V           Voltage - Output (Max)         -           Current - Output         20mA           Tolerance         ±0.08%           Temperature Coefficient         50ppm/°C           Noise - 0.1Hz to 10Hz         -           Noise - 10Hz to 10kHz         -           Voltage - Input         2 V ~ 5.5 V           Current - Supply         550µA           Current - Cathode         -           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         8-WFDFN Exposed Pad           Supplier Device Package         8-WDFN (2x2)   |                              | PMIC - Voltage Reference  |
| Reference TypeSeriesOutput TypeFixedVoltage - Output (Min/Fixed)1.8VVoltage - Output (Max)-Current - Output20mATolerance±0.08%Temperature Coefficient50ppm/°CNoise - 0.1Hz to 10Hz-Noise - 10Hz to 10kHz-Voltage - Input2 V ~ 5.5 VCurrent - Supply550µACurrent - Cathode-Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8-WFDFN Exposed PadSupplier Device Package8-WDFN (2x2)   | Package                      | 8-WFDFN Exposed Pad       |
| Output TypeFixedVoltage - Output (Min/Fixed)1.8VVoltage - Output (Max)-Current - Output20mATolerance±0.08%Temperature Coefficient50ppm/°CNoise - 0.1Hz to 10Hz-Noise - 10Hz to 10kHz-Voltage - Input2 V ~ 5.5 VCurrent - Supply550μACurrent - Cathode-Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8-WFDFN Exposed PadSupplier Device Package8-WDFN (2x2)   | Series                       | -                         |
| Voltage - Output (Min/Fixed)  Voltage - Output (Max)  Current - Output  20mA  Tolerance  ±0.08%  Temperature Coefficient  Soppm/°C  Noise - 0.1Hz to 10Hz  Noise - 10Hz to 10kHz  Voltage - Input  2 V ~ 5.5 V  Current - Supply  550µA  Current - Cathode  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  8-WFDFN Exposed Pad  Supplier Device Package   | Reference Type               | Series                    |
| Voltage - Output (Max)  Current - Output  20mA  Tolerance  ±0.08%  Temperature Coefficient  50ppm/°C  Noise - 0.1Hz to 10Hz  - Noise - 10Hz to 10kHz  - Voltage - Input  2 V ~ 5.5 V  Current - Supply  550µA  Current - Cathode  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  8-WFDFN Exposed Pad  Supplier Device Package   | Output Type                  | Fixed                     |
| Current - Output       20mA         Tolerance       ±0.08%         Temperature Coefficient       50ppm/°C         Noise - 0.1Hz to 10Hz       -         Noise - 10Hz to 10kHz       -         Voltage - Input       2 V ~ 5.5 V         Current - Supply       550μA         Current - Cathode       -         Operating Temperature       -40°C ~ 125°C (TA)         Mounting Type       Surface Mount         Package / Case       8-WFDFN Exposed Pad         Supplier Device Package       8-WDFN (2x2)   | Voltage - Output (Min/Fixed) | 1.8V                      |
| Tolerance ±0.08%  Temperature Coefficient 50ppm/°C  Noise - 0.1Hz to 10Hz -  Noise - 10Hz to 10kHz -  Voltage - Input 2 V ~ 5.5 V  Current - Supply 550µA  Current - Cathode -  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type Surface Mount  Package / Case 8-WFDFN Exposed Pad  Supplier Device Package 8-WDFN (2x2)   | Voltage - Output (Max)       | -                         |
| Temperature Coefficient  Noise - 0.1Hz to 10Hz  Noise - 10Hz to 10kHz  -  Voltage - Input  2 V ~ 5.5 V  Current - Supply  550μA  Current - Cathode  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  8-WFDFN Exposed Pad  Supplier Device Package   | Current - Output             | 20mA                      |
| Noise - 0.1Hz to 10Hz-Noise - 10Hz to 10kHz-Voltage - Input2 V ~ 5.5 VCurrent - Supply550μACurrent - Cathode-Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8-WFDFN Exposed PadSupplier Device Package8-WDFN (2x2)  | Tolerance                    | $\pm 0.08\%$              |
| Noise - 10Hz to 10kHz-Voltage - Input2 V ~ 5.5 VCurrent - Supply550μACurrent - Cathode-Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8-WFDFN Exposed PadSupplier Device Package8-WDFN (2x2)  | Temperature Coefficient      | 50ppm/°C                  |
| Voltage - Input $2\ V \sim 5.5\ V$ Current - Supply $550\mu A$ Current - Cathode $-$ Operating Temperature $-40^{\circ}C \sim 125^{\circ}C\ (TA)$ Mounting Type $Surface\ Mount$ Package / Case $8-WFDFN\ Exposed\ Pad$ Supplier Device Package   | Noise - 0.1Hz to 10Hz        | -                         |
| Current - Supply550μACurrent - Cathode-Operating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case8-WFDFN Exposed PadSupplier Device Package8-WDFN (2x2)  | Noise - 10Hz to 10kHz        | -                         |
| Current - Cathode - Gerating Temperature -40°C ~ 125°C (TA)  Mounting Type Surface Mount  Package / Case 8-WFDFN Exposed Pad  Supplier Device Package 8-WDFN (2x2)  | Voltage - Input              | 2 V ~ 5.5 V               |
| Operating Temperature -40°C ~ 125°C (TA)  Mounting Type Surface Mount Package / Case 8-WFDFN Exposed Pad  Supplier Device Package 8-WDFN (2x2)  | Current - Supply             | 550μΑ                     |
| Mounting Type Surface Mount Package / Case 8-WFDFN Exposed Pad Supplier Device Package 8-WDFN (2x2)   | Current - Cathode            | -                         |
| Package / Case 8-WFDFN Exposed Pad Supplier Device Package 8-WDFN (2x2)   | Operating Temperature        | -40°C ~ 125°C (TA)        |
| Supplier Device Package 8-WDFN (2x2)  | Mounting Type                | Surface Mount             |
|   | Package / Case               | 8-WFDFN Exposed Pad       |
| Report errors?  | Supplier Device Package      | 8-WDFN (2x2)              |
|   |                              | Report errors?            |

#### MCP1501T-18E/RW Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

### MCP1501T-18E/RW Payment Methods



















# MCP1501T-18E/RW Shipping Methods













If you have any question about MCP1501T-18E/RW, please do not hesitate to contact us!

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