



## **TLC4501CDG4 Information**



For Reference Only

Part Number TLC4501CDG4

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP GP 4.7MHZ RRO 8SOIC **Package** 8-SOIC (0.154", 3.90mm Width)

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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### **TLC4501CDG4 Specifications**

| Manufacturer Part Number       TLC4501CDG4         Manufacturer       Texas Instruments         Category       Integrated Circuits (ICs)         Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps         Package       8-SOIC (0.154", 3.90mm Width)         Series       LinEPIC?, Self-Cal?         Amplifier Type       General Purpose         Number of Circuits       1         Output Type       Rail-to-Rail         Slew Rate       2.5 V/μs         Gain Bandwidth Product       4.7MHz         -3db Bandwidth       -         Current - Input Bias       1pA         Voltage - Input Offset       10μV         Current - Supply       1mA         Current - Output / Channel       50mA         Voltage - Supply, Single/Dual (±)       4 V ~ 6 V, ±2 V ~ 3 V         Operating Temperature       0°C ~ 70°C         Mounting Type       Surface Mount         Package / Case       8-SOIC (0.154", 3.90mm Width)         Supplier Device Package       Report errors?   |                                   |   |
|---|-----------------------------------|---|
| Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         8-SOIC (0.154", 3.90mm Width)           Series         LinEPIC?, Self-Cal?           Amplifier Type         General Purpose           Number of Circuits         1           Output Type         Rail-to-Rail           Slew Rate         2.5 V/μs           Gain Bandwidth Product         4.7MHz           -3db Bandwidth         -           Current - Input Bias         1pA           Voltage - Input Offset         10μV           Current - Supply         1mA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         4 V ~ 6 V, ±2 V ~ 3 V           Operating Temperature         0°C ~ 70°C           Mounting Type         Surface Mount           Package / Case         8-SOIC (0.154", 3.90mm Width)           Supplier Device Package         8-SOIC   | Manufacturer Part Number          | TLC4501CDG4   |
| Linear - Amplifiers - Instrumentation, OP Amps, Buffer AmpsPackage8-SOIC (0.154", 3.90mm Width)SeriesLinEPIC?, Self-Cal?Amplifier TypeGeneral PurposeNumber of Circuits1Output TypeRail-to-RailSlew Rate2.5 V/μsGain Bandwidth Product4.7MHz-3db Bandwidth-Current - Input Bias1pAVoltage - Input Offset10μVCurrent - Supply1mACurrent - Output / Channel50mAVoltage - Supply, Single/Dual (±)4 V ~ 6 V, ±2 V ~ 3 VOperating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC  | Manufacturer                      | Texas Instruments   |
| Package8-SOIC (0.154", 3.90mm Width)SeriesLinEPIC?, Self-Cal?Amplifier TypeGeneral PurposeNumber of Circuits1Output TypeRail-to-RailSlew Rate $2.5 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $4.7\text{MHz}$ -3db Bandwidth-Current - Input Bias1pAVoltage - Input Offset $10\mu\text{V}$ Current - Supply1mACurrent - Output / Channel $50\text{mA}$ Voltage - Supply, Single/Dual (±) $4 \text{ V} \sim 6 \text{ V}, \pm 2 \text{ V} \sim 3 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8\text{-SOIC}$ (0.154", 3.90mm Width)Supplier Device Package $8\text{-SOIC}$   | Category                          | Integrated Circuits (ICs)                                   |
| SeriesLinEPIC?, Self-Cal?Amplifier TypeGeneral PurposeNumber of Circuits1Output TypeRail-to-RailSlew Rate2.5 V/μsGain Bandwidth Product4.7MHz-3db Bandwidth-Current - Input Bias1pAVoltage - Input Offset10μVCurrent - Supply1mACurrent - Output / Channel50mAVoltage - Supply, Single/Dual (±)4 V ~ 6 V, ±2 V ~ 3 VOperating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC   |                                   | Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps |
| Amplifier TypeGeneral PurposeNumber of Circuits1Output TypeRail-to-RailSlew Rate $2.5 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $4.7\text{MHz}$ -3db Bandwidth-Current - Input Bias $1\text{pA}$ Voltage - Input Offset $10\mu\text{V}$ Current - Supply $1\text{mA}$ Current - Output / Channel $50\text{mA}$ Voltage - Supply, Single/Dual $(\pm)$ $4 \text{ V} \sim 6 \text{ V}, \pm 2 \text{ V} \sim 3 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8\text{-SOIC}$ $(0.154^{\circ}, 3.90\text{mm Width})$ Supplier Device Package $8\text{-SOIC}$   | Package                           | 8-SOIC (0.154", 3.90mm Width)                               |
| Number of Circuits 1 Output Type Rail-to-Rail Slew Rate 2.5 V/ $\mu$ s Gain Bandwidth Product 4.7MHz -3db Bandwidth - Current - Input Bias 1pA Voltage - Input Offset 10 $\mu$ V Current - Supply 1mA Current - Output / Channel 50mA Voltage - Supply, Single/Dual (±) 4 V ~ 6 V, ±2 V ~ 3 V Operating Temperature 0°C ~ 70°C Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package   | Series                            | LinEPIC?, Self-Cal?   |
| Output Type Rail-to-Rail Slew Rate 2.5 V/ $\mu$ s  Gain Bandwidth Product 4.7MHz  -3db Bandwidth  - Current - Input Bias 1pA  Voltage - Input Offset 10 $\mu$ V  Current - Supply 1mA  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 4 V ~ 6 V, $\pm$ 2 V ~ 3 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SOIC   | Amplifier Type                    | General Purpose   |
| Slew Rate 2.5 V/ $\mu$ s  Gain Bandwidth Product 4.7MHz  -3db Bandwidth -  Current - Input Bias 1pA  Voltage - Input Offset 10 $\mu$ V  Current - Supply 1mA  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 4 V ~ 6 V, $\pm$ 2 V ~ 3 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SOIC  | Number of Circuits                | 1   |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$   | Output Type                       | Rail-to-Rail  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | Slew Rate                         | 2.5 V/μs  |
| $\begin{array}{lllll} & & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$ | Gain Bandwidth Product            | 4.7MHz  |
| Voltage - Input Offset  | -3db Bandwidth                    | -   |
| Current - Supply $1mA$ Current - Output / Channel $50mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $4 \text{ V} \sim 6 \text{ V}, \pm 2 \text{ V} \sim 3 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8\text{-SOIC}$ ( $0.154^{\circ}$ , $3.90\text{mm}$ Width)Supplier Device Package $8\text{-SOIC}$  | Current - Input Bias              | 1pA   |
| Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 4 V ~ 6 V, $\pm$ 2 V ~ 3 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SOIC  | Voltage - Input Offset            | $10\mu V$   |
| Voltage - Supply, Single/Dual ( $\pm$ ) 4 V ~ 6 V, $\pm$ 2 V ~ 3 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SOIC   | Current - Supply                  | 1mA   |
| Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SOIC   | Current - Output / Channel        | 50mA  |
| Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SOIC   | Voltage - Supply, Single/Dual (±) | 4 V ~ 6 V, ±2 V ~ 3 V                                       |
| Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SOIC   | Operating Temperature             | 0°C ~ 70°C  |
| Supplier Device Package 8-SOIC  | Mounting Type                     | Surface Mount   |
|   | Package / Case                    | 8-SOIC (0.154", 3.90mm Width)                               |
| Report errors?  | Supplier Device Package           | 8-SOIC  |
|   |                                   | Report errors?  |

#### **TLC4501CDG4 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.

### **TLC4501CDG4 Payment Methods**



















## **TLC4501CDG4 Shipping Methods**













If you have any question about TLC4501CDG4, please do not hesitate to contact us!

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