



#### **THS4081CDGN Information**



For Reference Only

Part Number THS4081CDGN
Manufacturer Texas Instruments
Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP VFB 175MHZ 8MSOP

Package 8-TSSOP, 8-MSOP (0.118", 3.00mm Width)

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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## **THS4081CDGN Specifications**

| Manufacturer Part Number         THS4081CDGN           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad           Series         -           Amplifier Type         Voltage Feedback           Number of Circuits         1           Output Type         -           Slew Rate         230 V/µs           Gain Bandwidth Product         -           -3db Bandwidth         175MHz           Current - Input Bias         1.2µA           Voltage - Input Offset         ImV           Current - Supply         3.4mA           Current - Output / Channel         85mA           Voltage - Supply, Single/Dual (±)         10 V ~ 30 V, ±5 V ~ 15 V           Operating Temperature         0°C ~ 70°C           Mounting Type         Surface Mount           Package / Case         8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad           Supplier Device Package         8-MSOP-PowerPad   | •                                 |   |
|--|-----------------------------------|---|
| Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad           Series         -           Amplifier Type         Voltage Feedback           Number of Circuits         1           Output Type         -           Slew Rate         230 V/μs           Gain Bandwidth Product         -           -3db Bandwidth         175MHz           Current - Input Bias         1.2μA           Voltage - Input Offset         ImV           Current - Supply         3.4mA           Current - Output / Channel         85mA           Voltage - Supply, Single/Dual (±)         10 V ~ 30 V, ±5 V ~ 15 V           Operating Temperature         0°C ~ 70°C           Mounting Type         Surface Mount           Package / Case         8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad           Supplier Device Package         8-MSOP-PowerPad   | Manufacturer Part Number          | THS4081CDGN   |
| Linear - Amplifiers - Instrumentation, OP Amps, Buffer AmpsPackage8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSeries-Amplifier TypeVoltage FeedbackNumber of Circuits1Output Type-Slew Rate230 V/μsGain Bandwidth Product3db Bandwidth175MHzCurrent - Input Bias1.2μAVoltage - Input OffsetImVCurrent - Supply3.4mACurrent - Output / Channel85mAVoltage - Supply, Single/Dual (±)10 V ~ 30 V, ±5 V ~ 15 VOperating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSupplier Device Package8-MSOP-PowerPad  | Manufacturer                      | Texas Instruments   |
| Package8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSeries-Amplifier TypeVoltage FeedbackNumber of Circuits1Output Type-Slew Rate $230 \text{ V/μs}$ Gain Bandwidth Product3db Bandwidth $175\text{MHz}$ Current - Input Bias $1.2\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $3.4\text{mA}$ Current - Output / Channel $85\text{mA}$ Voltage - Supply, Single/Dual (±) $10 \text{ V} \sim 30 \text{ V}, \pm 5 \text{ V} \sim 15 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8-\text{TSSOP}$ , $8-\text{MSOP}$ (0.118", $3.00\text{mm}$ Width) Exposed PadSupplier Device Package $8-\text{MSOP-PowerPad}$   | Category                          | Integrated Circuits (ICs)   |
| Series - Mumber of Circuits 1 Output Type - Circuits 1 Slew Rate 230 V/µs Gain Bandwidth Product - Current - Input Bias 1.2µA Voltage - Input Offset 1mV Current - Supply 3.4mA Current - Output / Channel 85mA Voltage - Supply, Single/Dual (±) 10 V ~ 30 V, ±5 V ~ 15 V Operating Temperature 0°C ~ 70°C Mounting Type Surface Mount Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad Summer Supply 1 Circuits (Supple Count of |                                   | Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps         |
| Amplifier TypeVoltage FeedbackNumber of Circuits1Output Type-Slew Rate230 V/μsGain Bandwidth Product3db Bandwidth175MHzCurrent - Input Bias1.2μAVoltage - Input OffsetImVCurrent - Supply3.4mACurrent - Output / Channel85mAVoltage - Supply, Single/Dual (±)10 V ~ 30 V, ±5 V ~ 15 VOperating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSupplier Device Package8-MSOP-PowerPad   | Package                           | 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad                  |
| Number of Circuits1Output Type-Slew Rate $230 \text{ V/μs}$ Gain Bandwidth Product3db Bandwidth $175\text{MHz}$ Current - Input Bias $1.2\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $3.4\text{mA}$ Current - Output / Channel $85\text{mA}$ Voltage - Supply, Single/Dual (±) $10 \text{ V} \sim 30 \text{ V}, \pm 5 \text{ V} \sim 15 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8-\text{TSSOP}, 8-\text{MSOP} (0.118", 3.00\text{mm Width}) \text{ Exposed Pad}$ Supplier Device Package $8-\text{MSOP-PowerPad}$   | Series                            | -   |
| Output Type - Slew Rate 230 V/ $\mu$ s  Gain Bandwidth Product   | Amplifier Type                    | Voltage Feedback  |
| Slew Rate230 V/μsGain Bandwidth Product3db Bandwidth175MHzCurrent - Input Bias1.2μAVoltage - Input Offset1mVCurrent - Supply3.4mACurrent - Output / Channel85mAVoltage - Supply, Single/Dual (±)10 V ~ 30 V, ±5 V ~ 15 VOperating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSupplier Device Package8-MSOP-PowerPad  | Number of Circuits                | 1   |
| Gain Bandwidth Product -3db Bandwidth 175MHz  Current - Input Bias 1.2μA  Voltage - Input Offset 1mV  Current - Supply 3.4mA  Current - Output / Channel 85mA  Voltage - Supply, Single/Dual (±) 10 V ~ 30 V, ±5 V ~ 15 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package 8-MSOP-PowerPad  | Output Type                       | -   |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$  | Slew Rate                         | 230 V/μs  |
| Current - Input Bias  1.2µA  Voltage - Input Offset  1mV  Current - Supply  3.4mA  Current - Output / Channel  85mA  Voltage - Supply, Single/Dual (±)  10 V ~ 30 V, ±5 V ~ 15 V  Operating Temperature  0°C ~ 70°C  Mounting Type  Surface Mount  Package / Case  8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package  8-MSOP-PowerPad  | Gain Bandwidth Product            | -   |
| Voltage - Input Offset  Current - Supply  3.4mA  Current - Output / Channel  85mA  Voltage - Supply, Single/Dual (±)  10 V ~ 30 V, ±5 V ~ 15 V  Operating Temperature  0°C ~ 70°C  Mounting Type  Surface Mount  Package / Case  8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package  8-MSOP-PowerPad  | -3db Bandwidth                    | 175MHz  |
| Current - Supply Current - Output / Channel 85mA  Voltage - Supply, Single/Dual (±) 10 V ~ 30 V, ±5 V ~ 15 V  Operating Temperature 0°C ~ 70°C  Mounting Type Surface Mount Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package 8-MSOP-PowerPad   | Current - Input Bias              | 1.2μΑ   |
| Current - Output / Channel $85mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $10 \text{ V} \sim 30 \text{ V}, \pm 5 \text{ V} \sim 15 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $8\text{-TSSOP}, 8\text{-MSOP}$ ( $0.118\text{"}, 3.00\text{mm}$ Width) Exposed PadSupplier Device Package $8\text{-MSOP-PowerPad}$   | Voltage - Input Offset            | 1mV   |
| Voltage - Supply, Single/Dual ( $\pm$ ) 10 V ~ 30 V, $\pm$ 5 V ~ 15 V Operating Temperature 0°C ~ 70°C Mounting Type Surface Mount Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad Supplier Device Package 8-MSOP-PowerPad   | Current - Supply                  | 3.4mA   |
| Operating Temperature0°C ~ 70°CMounting TypeSurface MountPackage / Case8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSupplier Device Package8-MSOP-PowerPad  | Current - Output / Channel        | 85mA  |
| Mounting Type Surface Mount  Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package 8-MSOP-PowerPad  | Voltage - Supply, Single/Dual (±) | $10 \text{ V} \sim 30 \text{ V}, \pm 5 \text{ V} \sim 15 \text{ V}$ |
| Package / Case 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad Supplier Device Package 8-MSOP-PowerPad  | Operating Temperature             | 0°C ~ 70°C  |
| Supplier Device Package 8-MSOP-PowerPad  | Mounting Type                     | Surface Mount   |
|  | Package / Case                    | 8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad                  |
| Report errors?   | Supplier Device Package           | 8-MSOP-PowerPad   |
|  |                                   | Report errors?  |

#### **THS4081CDGN 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.

# **THS4081CDGN Payment Methods**



















## **THS4081CDGN Shipping Methods**













If you have any question about THS4081CDGN, please do not hesitate to contact us!

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