



### **THS4140CDGN Information**



For Reference Only

Part Number THS4140CDGN
Manufacturer Texas Instruments
Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP DIFF 205MHZ 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



Request a Quote

# **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## **THS4140CDGN Specifications**

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         Differential           Number of Circuits         1           Output Type         Differential           Slew Rate         450 V/μs           Gain Bandwidth Product         205MHz           -3db Bandwidth         160MHz           Current - Input Bias         5.1μA           Voltage - Input Offset         1mV           Current - Supply         13.2mA           Current - Output / Channel         85mA           Voltage - Supply, Single/Dual (±)         4 V ~ 33 V, ±2 V ~ 16.5 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		
Integrated Circuits (ICs)	Manufacturer Part Number	THS4140CDGN
Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps  8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Series  - Amplifier Type Differential  Number of Circuits 1 Output Type Differential  Slew Rate 450 V/μs  Gain Bandwidth Product -3db Bandwidth 160MHz  Current - Input Bias 5.1μA  Voltage - Input Offset ImV  Current - Supply 13.2mA  Current - Output / Channel 85mA  Voltage - Supply, Single/Dual (±) 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	Manufacturer	Texas Instruments
Package         8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad           Series         -           Amplifier Type         Differential           Number of Circuits         1           Output Type         Differential           Slew Rate         450 V/μs           Gain Bandwidth Product         205MHz           -3db Bandwidth         160MHz           Current - Input Bias         5.1μA           Voltage - Input Offset         1mV           Current - Supply         13.2mA           Current - Output / Channel         85mA           Voltage - Supply, Single/Dual (±)         4 V ~ 33 V, ±2 V ~ 16.5 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)
Series - Amplifier Type Differential Number of Circuits 1 Output Type Differential Slew Rate 450 V/µs Gain Bandwidth Product 205MHz -3db Bandwidth 160MHz Current - Input Bias 5.1µA Voltage - Input Offset 1mV Current - Supply 13.2mA Current - Output / Channel 85mA Voltage - Supply, Single/Dual (±) 4 V ~ 33 V, ±2 V ~ 16.5 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		Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps
Amplifier TypeDifferentialNumber of Circuits1Output TypeDifferentialSlew Rate450 V/μsGain Bandwidth Product205MHz-3db Bandwidth160MHzCurrent - Input Bias5.1μAVoltage - Input Offset1mVCurrent - Supply13.2mACurrent - Output / Channel85mAVoltage - Supply, Single/Dual (±)4 V ~ 33 V, ±2 V ~ 16.5 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 Circuits       1         Output Type       Differential         Slew Rate       450 V/μs         Gain Bandwidth Product       205MHz         -3db Bandwidth       160MHz         Current - Input Bias       5.1μA         Voltage - Input Offset       1mV         Current - Supply       13.2mA         Current - Output / Channel       85mA         Voltage - Supply, Single/Dual (±)       4 V ~ 33 V, ±2 V ~ 16.5 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	Series	-
Output Type Differential Slew Rate $450 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $205\text{MHz}$ -3db Bandwidth 160MHz Current - Input Bias $5.1\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $13.2\text{mA}$ Current - Output / Channel $85\text{mA}$ Voltage - Supply, Single/Dual ( $\pm$ ) $4 \text{ V} \sim 33 \text{ V}, \pm 2 \text{ V} \sim 16.5 \text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting Type Surface Mount Package / Case $8$ -TSSOP, $8$ -MSOP ( $0.118^{\circ}$ , $3.00\text{mm}$ Width) Exposed Pad Supplier Device Package $8$	Amplifier Type	Differential
Slew Rate $450 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $205\text{MHz}$ -3db Bandwidth $160\text{MHz}$ Current - Input Bias $5.1\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $13.2\text{mA}$ Current - Output / Channel $85\text{mA}$ Voltage - Supply, Single/Dual (±) $4\text{ V} \sim 33\text{ V}, \pm 2\text{ V} \sim 16.5\text{ V}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Mounting Type Surface Mount $8-\text{TSSOP}, 8-\text{MSOP} (0.118^{\circ}, 3.00\text{mm Width}) \text{ Exposed Pad}$ Supplier Device Package $8-\text{MSOP-PowerPad}$	Number of Circuits	1
Gain Bandwidth Product  -3db Bandwidth  160MHz  Current - Input Bias  5.1μA  Voltage - Input Offset  1mV  Current - Supply  13.2mA  Current - Output / Channel  Voltage - Supply, Single/Dual (±)  Operating Temperature  0°C ~ 70°C  Mounting Type  Package / Case  8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad  Supplier Device Package	Output Type	Differential
160MHz Current - Input Bias 5.1μA Voltage - Input Offset 1mV Current - Supply 13.2mA Current - Output / Channel 85mA Voltage - Supply, Single/Dual (±) 4 V ~ 33 V, ±2 V ~ 16.5 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	Slew Rate	450 V/μs
Current - Input Bias  5.1µA  Voltage - Input Offset  1mV  Current - Supply  13.2mA  Current - Output / Channel  85mA  Voltage - Supply, Single/Dual (±)  4 V ~ 33 V, ±2 V ~ 16.5 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	205MHz
Voltage - Input Offset  Current - Supply  13.2mA  Current - Output / Channel  85mA  Voltage - Supply, Single/Dual (±)  4 V ~ 33 V, ±2 V ~ 16.5 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	160MHz
Current - Supply Current - Output / Channel 85mA  Voltage - Supply, Single/Dual (±) 4 V ~ 33 V, ±2 V ~ 16.5 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	5.1μΑ
Current - Output / Channel 85mA  Voltage - Supply, Single/Dual (±) 4 V ~ 33 V, ±2 V ~ 16.5 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	Voltage - Input Offset	1mV
Voltage - Supply, Single/Dual (±)  4 V ~ 33 V, ±2 V ~ 16.5 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	13.2mA
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 - 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 (±)	4 V ~ 33 V, ±2 V ~ 16.5 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?

#### **THS4140CDGN 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.

# **THS4140CDGN Payment Methods**



















### **THS4140CDGN Shipping Methods**













If you have any question about THS4140CDGN, please do not hesitate to contact us!

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