



#### **THS4503IDGN Information**



For Reference Only

Part Number THS4503IDGN

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP DIFF 300MHZ 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**

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.









## **THS4503IDGN Specifications**

Manufacturer Part NumberTHS4503IDGNManufacturerTexas InstrumentsCategoryIntegrated Circuits (ICs)Linear - Amplifiers - Instrumentation, OP Amps, Buffer AmpsPackage8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed PadSeries-Amplifier TypeDifferentialNumber of Circuits1Output TypeDifferentialSlew Rate2800 V/μsGain Bandwidth Product300MHz-3db Bandwidth370MHzCurrent - Input Bias4μAVoltage - Input Offset1mVCurrent - Supply23mACurrent - Output / Channel120mAVoltage - Supply, Single/Dual (±)4.5 V ~ 15 V, ±2.25 V ~ 7.5 VOperating Temperature-40°C ~ 85°CMounting TypeSurface Mount	•	
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Series - Differential Number of Circuits 1 Output Type Differential Slew Rate 2800 V/µs Gain Bandwidth Product 300MHz -3db Bandwidth Current - Input Bias 4µA Voltage - Input Offset 1mV Current - Supply 23mA Current - Output / Channel 120mA Voltage - Supply, Single/Dual (±) 4.5 V ~ 15 V, ±2.25 V ~ 7.5 V Operating Temperature -40°C ~ 85°C Mounting Type Surface Mount		Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps
Amplifier TypeDifferentialNumber of Circuits1Output TypeDifferentialSlew Rate2800 V/μsGain Bandwidth Product300MHz-3db Bandwidth370MHzCurrent - Input Bias4μAVoltage - Input Offset1mVCurrent - Supply23mACurrent - Output / Channel120mAVoltage - Supply, Single/Dual (±)4.5 V ~ 15 V, ±2.25 V ~ 7.5 VOperating Temperature-40°C ~ 85°CMounting TypeSurface Mount	Package	8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad
Number of Circuits 1 Output Type Differential Slew Rate 2800 V/ $\mu$ s Gain Bandwidth Product 300MHz -3db Bandwidth Current - Input Bias 4 $\mu$ A Voltage - Input Offset 1mV Current - Supply 23mA Current - Output / Channel 120mA Voltage - Supply, Single/Dual ( $\pm$ ) 4.5 V ~ 15 V, $\pm$ 2.25 V ~ 7.5 V Operating Temperature -40°C ~ 85°C Mounting Type Surface Mount	Series	-
Output TypeDifferentialSlew Rate $2800 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $300\text{MHz}$ -3db Bandwidth $370\text{MHz}$ Current - Input Bias $4\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $23\text{mA}$ Current - Output / Channel $120\text{mA}$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting TypeSurface Mount	Amplifier Type	Differential
Slew Rate $2800 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $300 \text{MHz}$ -3db Bandwidth $370 \text{MHz}$ Current - Input Bias $4\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $23\text{mA}$ Current - Output / Channel $120\text{mA}$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting Type Surface Mount	Number of Circuits	1
Gain Bandwidth Product $300 \text{MHz}$ -3db Bandwidth $370 \text{MHz}$ Current - Input Bias $4\mu\text{A}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $23\text{mA}$ Current - Output / Channel $120\text{mA}$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting Type Surface Mount	Output Type	Differential
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Slew Rate	2800 V/μs
Current - Input Bias $4\mu A$ Voltage - Input Offset $1mV$ Current - Supply $23mA$ Current - Output / Channel $120mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \ V \sim 15 \ V, \pm 2.25 \ V \sim 7.5 \ V$ Operating Temperature $-40^{\circ}C \sim 85^{\circ}C$ Mounting Type Surface Mount	Gain Bandwidth Product	300MHz
Voltage - Input Offset $1mV$ Current - Supply $23mA$ Current - Output / Channel $120mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting TypeSurface Mount	-3db Bandwidth	370MHz
Current - Supply $23mA$ Current - Output / Channel $120mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting TypeSurface Mount	Current - Input Bias	$4\mu A$
Current - Output / Channel $120 \text{mA}$ Voltage - Supply, Single/Dual (±) $4.5 \text{ V} \sim 15 \text{ V}, \pm 2.25 \text{ V} \sim 7.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting TypeSurface Mount	Voltage - Input Offset	1mV
Voltage - Supply, Single/Dual ( $\pm$ ) 4.5 V ~ 15 V, $\pm$ 2.25 V ~ 7.5 V Operating Temperature -40°C ~ 85°C Mounting Type Surface Mount	Current - Supply	23mA
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting Type Surface Mount	Current - Output / Channel	120mA
Mounting Type Surface Mount	Voltage - Supply, Single/Dual (±)	4.5 V ~ 15 V, ±2.25 V ~ 7.5 V
	Operating Temperature	-40°C ~ 85°C
	Mounting Type	Surface Mount
Package / Case 8-1SSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad	Package / Case	8-TSSOP, 8-MSOP (0.118", 3.00mm Width) Exposed Pad
Supplier Device Package 8-MSOP-PowerPad	Supplier Device Package	8-MSOP-PowerPad
Report errors		Report errors?

#### **THS4503IDGN 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.

# **THS4503IDGN Payment Methods**



















## **THS4503IDGN Shipping Methods**













If you have any question about THS4503IDGN, please do not hesitate to contact us!

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