



### **TS971IYDT Information**

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For Reference Only

Part Number TS971IYDT

Manufacturer STMicroelectronics

Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

Buffer Amps

**Description** IC OPAMP GP 12MHZ RRO 8SO **Package** 8-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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## **TS971IYDT Specifications**

Manufacturer Part Number         TS971IYDT           Manufacturer         STMicroelectronics           Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         8-SOIC (0.154", 3.90mm Width)           Series         Automotive, AEC-Q100           Amplifier Type         General Purpose           Number of Circuits         1           Output Type         Rail-to-Rail           Slew Rate         4 V/µs           Gain Bandwidth Product         12MHz           -3db Bandwidth         -           Current - Input Bias         200nA           Voltage - Input Offset         ImV           Current - Supply         2mA           Current - Output / Channel         100mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 10 V, ±1.35 V ~ 5 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         8-SOIC (0.154", 3.90mm Width)           Supplier Device Package         8-SOI		
Integrated Circuits (ICs)	Manufacturer Part Number	TS971IYDT
Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps  8-SOIC (0.154", 3.90mm Width)  Series Automotive, AEC-Q100  Amplifier Type General Purpose  Number of Circuits 1 Output Type Rail-to-Rail  Slew Rate 4 V/µs  Gain Bandwidth Product 12MHz -3db Bandwidth - Current - Input Bias 200nA  Voltage - Input Offset ImV  Current - Supply 2mA  Current - Output / Channel 100mA  Voltage - Supply, Single/Dual (±) 2.7 V ~ 10 V, ±1.35 V ~ 5 V  Operating Temperature 40°C ~ 125°C  Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SO	Manufacturer	STMicroelectronics
Package         8-SOIC (0.154", 3.90mm Width)           Series         Automotive, AEC-Q100           Amplifier Type         General Purpose           Number of Circuits         1           Output Type         Rail-to-Rail           Slew Rate         4 V/µs           Gain Bandwidth Product         12MHz           -3db Bandwidth         -           Current - Input Bias         200nA           Voltage - Input Offset         ImV           Current - Supply         2mA           Current - Output / Channel         100mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 10 V, ±1.35 V ~ 5 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         8-SOIC (0.154", 3.90mm Width)           Supplier Device Package         8-SO	Category	Integrated Circuits (ICs)
SeriesAutomotive, AEC-Q100Amplifier TypeGeneral PurposeNumber of Circuits1Output TypeRail-to-RailSlew Rate4 V/μsGain Bandwidth Product12MHz-3db Bandwidth-Current - Input Bias200nAVoltage - Input Offset1mVCurrent - Supply2mACurrent - Output / Channel100mAVoltage - Supply, Single/Dual (±)2.7 V ~ 10 V, ±1.35 V ~ 5 VOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SO		Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps
Amplifier Type General Purpose Number of Circuits 1  Output Type Rail-to-Rail Slew Rate 4 $V/\mu s$ Gain Bandwidth Product 12MHz -3db Bandwidth - Current - Input Bias 200nA Voltage - Input Offset 1mV Current - Supply 2mA Current - Output / Channel 100mA Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 10 V, $\pm$ 1.35 V ~ 5 V Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SO	Package	8-SOIC (0.154", 3.90mm Width)
Number of Circuits 1 Output Type Rail-to-Rail Slew Rate 4 $V/\mu s$ Gain Bandwidth Product 12MHz -3db Bandwidth - Current - Input Bias 200nA Voltage - Input Offset 1mV Current - Supply 2mA Current - Output / Channel 100mA Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 10 V, $\pm$ 1.35 V ~ 5 V Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SO	Series	Automotive, AEC-Q100
Output Type Rail-to-Rail  Slew Rate $4 \text{ V/}\mu\text{s}$ Gain Bandwidth Product $12\text{MHz}$ -3db Bandwidth  - Current - Input Bias $200\text{nA}$ Voltage - Input Offset $1\text{mV}$ Current - Supply $2\text{mA}$ Current - Output / Channel $100\text{mA}$ Voltage - Supply, Single/Dual ( $\pm$ ) $2.7 \text{ V} \sim 10 \text{ V}, \pm 1.35 \text{ V} \sim 5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting Type Surface Mount  Package / Case $8\text{-SOIC}$ (0.154", 3.90mm Width)  Supplier Device Package $8\text{-SO}$	Amplifier Type	General Purpose
Slew Rate  Gain Bandwidth Product  -3db Bandwidth  - Current - Input Bias  Voltage - Input Offset  1mV  Current - Supply  2mA  Current - Output / Channel  Voltage - Supply, Single/Dual (±)  2.7 V ~ 10 V, ±1.35 V ~ 5 V  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  8-SO	Number of Circuits	1
Gain Bandwidth Product  -3db Bandwidth  -  Current - Input Bias  200nA  Voltage - Input Offset  ImV  Current - Supply  2mA  Current - Output / Channel  Voltage - Supply, Single/Dual (±)  Operating Temperature  40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Output Type	Rail-to-Rail
-3db Bandwidth - Current - Input Bias 200nA  Voltage - Input Offset 1mV  Current - Supply 2mA  Current - Output / Channel 100mA  Voltage - Supply, Single/Dual (±) 2.7 V ~ 10 V, ±1.35 V ~ 5 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SO	Slew Rate	4 V/μs
Current - Input Bias  Voltage - Input Offset  ImV  Current - Supply  2mA  Current - Output / Channel  100mA  Voltage - Supply, Single/Dual (±)  2.7 V ~ 10 V, ±1.35 V ~ 5 V  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package	Gain Bandwidth Product	12MHz
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	-3db Bandwidth	-
Current - Supply 2mA  Current - Output / Channel 100mA  Voltage - Supply, Single/Dual (±) 2.7 V ~ 10 V, ±1.35 V ~ 5 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SO	Current - Input Bias	200nA
Current - Output / Channel 100mA  Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 10 V, $\pm$ 1.35 V ~ 5 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SO	Voltage - Input Offset	1mV
Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 10 V, $\pm$ 1.35 V ~ 5 V Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SO	Current - Supply	2mA
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)  Supplier Device Package 8-SO	Current - Output / Channel	100mA
Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SO	Voltage - Supply, Single/Dual (±)	2.7 V ~ 10 V, ±1.35 V ~ 5 V
Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SO	Operating Temperature	-40°C ~ 125°C
Supplier Device Package 8-SO	Mounting Type	Surface Mount
	Package / Case	8-SOIC (0.154", 3.90mm Width)
Donord control	Supplier Device Package	8-SO
Report errors		Report errors?

#### **TS971IYDT** 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.

# **TS971IYDT Payment Methods**



















### **TS971IYDT Shipping Methods**













If you have any question about TS971IYDT, please do not hesitate to contact us!

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