



### **TLV2254AIPW Information**



For Reference Only

Part Number TLV2254AIPW

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP GP 200KHZ RRO 14TSSOP **Package** 14-TSSOP (0.173", 4.40mm Width)

For the pricing/inventory/lead time, please contact

us

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



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# **TLV2254AIPW Specifications**

| Manufacturer Part Number         TLV2254AIPW           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         14-TSSOP (0.173", 4.40mm Width)           Series         LinCMOS?           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.12 V/μs           Gain Bandwidth Product         200kHz           -3db Bandwidth         -           Current - Input Bias         1pA           Voltage - Input Offset         200μV           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 8 V, ±1.35 V ~ 4 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         14-TSSOP (0.173", 4.40mm Width)           Supplier Device Package         14-TSSOP |                                   |                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------|
| Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         14-TSSOP (0.173", 4.40mm Width)           Series         LinCMOS?           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.12 V/μs           Gain Bandwidth Product         200kHz           -3db Bandwidth         -           Current - Input Bias         1pA           Voltage - Input Offset         200μV           Current - Supply         140μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 8 V, ±1.35 V ~ 4 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         14-TSSOP (0.173", 4.40mm Width)           Supplier Device Package         14-TSSOP                                                                | Manufacturer Part Number          | TLV2254AIPW                                                 |
| Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         14-TSSOP (0.173", 4.40mm Width)           Series         LinCMOS?           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.12 V/μs           Gain Bandwidth Product         200kHz           -3db Bandwidth         -           Current - Input Bias         1pA           Voltage - Input Offset         200μV           Current - Supply         140μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 8 V, ±1.35 V ~ 4 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         14-TSSOP (0.173", 4.40mm Width)           Supplier Device Package         14-TSSOP                                                                                                                     | Manufacturer                      | Texas Instruments                                           |
| Package         14-TSSOP (0.173", 4.40mm Width)           Series         LinCMOS?           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.12 V/μs           Gain Bandwidth Product         200kHz           -3db Bandwidth         -           Current - Input Bias         1pA           Voltage - Input Offset         200μV           Current - Supply         140μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 8 V, ±1.35 V ~ 4 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         14-TSSOP (0.173", 4.40mm Width)           Supplier Device Package         14-TSSOP                                                                                                                                                                                           | Category                          | Integrated Circuits (ICs)                                   |
| SeriesLinCMOS?Amplifier TypeGeneral PurposeNumber of Circuits4Output TypeRail-to-RailSlew Rate0.12 V/μsGain Bandwidth Product200kHz-3db Bandwidth-Current - Input Bias1pAVoltage - Input Offset200μVCurrent - Supply140μACurrent - Output / Channel50mAVoltage - Supply, Single/Dual (±)2.7 V ~ 8 V, ±1.35 V ~ 4 VOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case14-TSSOP (0.173", 4.40mm Width)Supplier Device Package14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   | Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps |
| Amplifier TypeGeneral PurposeNumber of Circuits4Output TypeRail-to-RailSlew Rate $0.12 \text{ V/μs}$ Gain Bandwidth Product $200\text{kHz}$ -3db Bandwidth-Current - Input Bias $1\text{pA}$ Voltage - Input Offset $200\mu\text{V}$ Current - Supply $140\mu\text{A}$ Current - Output / Channel $50\text{mA}$ Voltage - Supply, Single/Dual (±) $2.7 \text{ V} \sim 8 \text{ V}, \pm 1.35 \text{ V} \sim 4 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $14\text{-TSSOP}$ (0.173", 4.40mm Width)Supplier Device Package $14\text{-TSSOP}$                                                                                                                                                                                                                                                                                                                                                                                                             | Package                           | 14-TSSOP (0.173", 4.40mm Width)                             |
| Number of Circuits 4 Output Type Rail-to-Rail Slew Rate 0.12 V/ $\mu$ s Gain Bandwidth Product 200kHz -3db Bandwidth - Current - Input Bias 1pA Voltage - Input Offset 200 $\mu$ V Current - Supply 140 $\mu$ A Current - Output / Channel 50mA Voltage - Supply, Single/Dual (±) 2.7 V ~ 8 V, ±1.35 V ~ 4 V Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 14-TSSOP (0.173", 4.40mm Width) Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Series                            | LinCMOS?                                                    |
| Output Type Rail-to-Rail Slew Rate 0.12 V/ $\mu$ s  Gain Bandwidth Product 200kHz  -3db Bandwidth - Current - Input Bias 1pA Voltage - Input Offset 200 $\mu$ V  Current - Supply 140 $\mu$ A  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 8 V, $\pm$ 1.35 V ~ 4 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Package / Case 14-TSSOP (0.173", 4.40mm Width)  Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Amplifier Type                    | General Purpose                                             |
| Slew Rate 0.12 V/ $\mu$ s Gain Bandwidth Product 200kHz  -3db Bandwidth -  Current - Input Bias 1pA  Voltage - Input Offset 200 $\mu$ V  Current - Supply 140 $\mu$ A  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 8 V, $\pm$ 1.35 V ~ 4 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Package / Case 14-TSSOP (0.173", 4.40mm Width)  Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Number of Circuits                | 4                                                           |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Output Type                       | Rail-to-Rail                                                |
| $-3db \ Bandwidth \\ Current - Input \ Bias \\ IpA \\ Voltage - Input \ Offset \\ 200 \mu V \\ Current - Supply \\ 140 \mu A \\ Current - Output / Channel \\ Voltage - Supply, Single/Dual (\pm)  2.7 \ V \sim 8 \ V, \pm 1.35 \ V \sim 4 \ V \\ Operating \ Temperature \\ Mounting \ Type \\ Surface \ Mount \\ Package / Case \\ 14-TSSOP (0.173", 4.40mm \ Width) \\ Supplier \ Device \ Package \\ 14-TSSOP \\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Slew Rate                         | 0.12 V/μs                                                   |
| Current - Input Bias $ 1pA $ Voltage - Input Offset $ 200\mu V $ Current - Supply $ 140\mu A $ Current - Output / Channel $ 50mA $ Voltage - Supply, Single/Dual ( $\pm$ ) $ 2.7 \ V \sim 8 \ V, \pm 1.35 \ V \sim 4 \ V $ Operating Temperature $ -40^{\circ}C \sim 125^{\circ}C $ Mounting Type $ Surface \ Mount $ Package / Case $ 14-TSSOP \ (0.173'', 4.40mm \ Width) $ Supplier Device Package $ 14-TSSOP $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Gain Bandwidth Product            | 200kHz                                                      |
| Voltage - Input Offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -3db Bandwidth                    | -                                                           |
| Current - Supply $140\mu A$ Current - Output / Channel $50mA$ Voltage - Supply, Single/Dual (±) $2.7 \text{ V} \sim 8 \text{ V}, \pm 1.35 \text{ V} \sim 4 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting Type $Surface \text{ Mount}$ Package / Case $14\text{-TSSOP} (0.173'', 4.40mm \text{ Width})$ Supplier Device Package $14\text{-TSSOP}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Current - Input Bias              | 1pA                                                         |
| Current - Output / Channel $50mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $2.7 \text{ V} \sim 8 \text{ V}, \pm 1.35 \text{ V} \sim 4 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $14\text{-TSSOP}$ ( $0.173^{\circ}$ , $4.40mm$ Width)Supplier Device Package $14\text{-TSSOP}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Voltage - Input Offset            | $200\mu V$                                                  |
| Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 8 V, $\pm$ 1.35 V ~ 4 V<br>Operating Temperature -40°C ~ 125°C<br>Mounting Type Surface Mount<br>Package / Case 14-TSSOP (0.173", 4.40mm Width)<br>Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Current - Supply                  | 140μΑ                                                       |
| Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  14-TSSOP (0.173", 4.40mm Width)  Supplier Device Package  14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Current - Output / Channel        | 50mA                                                        |
| Mounting Type Surface Mount Package / Case 14-TSSOP (0.173", 4.40mm Width) Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage - Supply, Single/Dual (±) | 2.7 V ~ 8 V, ±1.35 V ~ 4 V                                  |
| Package / Case 14-TSSOP (0.173", 4.40mm Width) Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Operating Temperature             | -40°C ~ 125°C                                               |
| Supplier Device Package 14-TSSOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mounting Type                     | Surface Mount                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Package / Case                    | 14-TSSOP (0.173", 4.40mm Width)                             |
| Report errors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Supplier Device Package           | 14-TSSOP                                                    |
| ı                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   | Report errors?                                              |

#### **TLV2254AIPW 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.

# **TLV2254AIPW Payment Methods**



















### **TLV2254AIPW Shipping Methods**













If you have any question about TLV2254AIPW, please do not hesitate to contact us!

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