



#### AD5696RBCPZ-RL7 Information



For Reference Only

Part Number AD5696RBCPZ-RL7

Manufacturer Analog Devices Inc.

Category Integrated Circuits (ICs)

Data Acquisition - Digital to Analog Converters

(DAC)

**Description** IC DAC 16BIT I2C QUAD 16LFCSP

Package 16-WFQFN Exposed Pad, CSP

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.









## **AD5696RBCPZ-RL7 Specifications**

Manufacturer Part Number         AD5696RBCPZ-RL7           Manufacturer         Analog Devices Inc.           Category         Integrated Circuits (ICs)           Data Acquisition - Digital to Analog Converters (DAC)           Package         16-WFQPN Exposed Pad, CSP           Series         nanoDAC+?           Number of Bits         16           Number of D/A Converters         4           Settling Time         8µs           Output Type         Voltage - Buffered           Differential Output         No           Data Interface         12C           Reference Type         External, Internal           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         1.8 V ~ 5.5 V           INL/DNL (LSB)         ±1, ±1 (Max)           Architecture         String DAC           Operating Temperature         -40°C ~ 103°C           Package / Case         16-WFQFN Exposed Pad, CSP           Supplier Device Package         16-LFCSP-WQ (3x3)           Mounting Type         Report errors?		
Category         Integrated Circuits (ICs)           Data Acquisition - Digital to Analog Converters (DAC)           Package         16-WFQFN Exposed Pad, CSP           Series         nanoDAC+?           Number of Bits         16           Number of D/A Converters         4           Settling Time         8µs           Output Type         Voltage - Buffered           Differential Output         No           Data Interface         12C           Reference Type         External, Internal           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         1.8 V ~ 5.5 V           INL/DNL (LSB)         ±1, ±1 (Max)           Architecture         String DAC           Operating Temperature         -40°C ~ 105°C           Package / Case         16-WFQFN Exposed Pad, CSP           Supplier Device Package         16-LFCSP-WQ (3x3)           Mounting Type         -	Manufacturer Part Number	AD5696RBCPZ-RL7
Package16-WFQFN Exposed Pad, CSPSeriesnanoDAC+?Number of Bits16Number of D/A Converters4Settling Time8μsOutput TypeVoltage - BufferedDifferential OutputNoData InterfaceI2CReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 5.5 VVoltage - Supply, Digital1.8 V ~ 5.5 VINL/DNL (LSB)±1, ±1 (Max)ArchitectureString DACOperating Temperature-40°C ~ 105°CPackage / Case16-WFQFN Exposed Pad, CSPSupplier Device Package16-LFCSP-WQ (3x3)Mounting Type-	Manufacturer	Analog Devices Inc.
Package         16-WFQFN Exposed Pad, CSP           Series         nanoDAC+?           Number of Bits         16           Number of D/A Converters         4           Settling Time         8µs           Output Type         Voltage - Buffered           Differential Output         No           Data Interface         12C           Reference Type         External, Internal           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         1.8 V ~ 5.5 V           INL/DNL (LSB)         ±1, ±1 (Max)           Architecture         String DAC           Operating Temperature         -40°C ~ 105°C           Package / Case         16-WFQFN Exposed Pad, CSP           Supplier Device Package         16-LFCSP-WQ (3x3)           Mounting Type         -	Category	Integrated Circuits (ICs)
SeriesnanoDAC+?Number of Bits16Number of D/A Converters4Settling Time8µsOutput TypeVoltage - BufferedDifferential OutputNoData Interface12CReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 5.5 VVoltage - Supply, Digital1.8 V ~ 5.5 VINL/DNL (LSB)±1, ±1 (Max)ArchitectureString DACOperating Temperature-40°C ~ 105°CPackage / Case16-WFQFN Exposed Pad, CSPSupplier Device Package16-LFCSP-WQ (3x3)Mounting Type-		Data Acquisition - Digital to Analog Converters (DAC)
Number of Bits16Number of D/A Converters4Settling Time8μsOutput TypeVoltage - BufferedDifferential OutputNoData InterfaceI2CReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 5.5 VVoltage - Supply, Digital1.8 V ~ 5.5 VINL/DNL (LSB)±1, ±1 (Max)ArchitectureString DACOperating Temperature-40°C ~ 105°CPackage / Case16-WFQFN Exposed Pad, CSPSupplier Device Package16-LFCSP-WQ (3x3)Mounting Type-	Package	16-WFQFN Exposed Pad, CSP
Number of D/A Converters       4         Settling Time       8µs         Output Type       Voltage - Buffered         Differential Output       No         Data Interface       I2C         Reference Type       External, Internal         Voltage - Supply, Analog       2.7 V ~ 5.5 V         Voltage - Supply, Digital       1.8 V ~ 5.5 V         INL/DNL (LSB)       ±1, ±1 (Max)         Architecture       String DAC         Operating Temperature       -40°C ~ 105°C         Package / Case       16-WFQFN Exposed Pad, CSP         Supplier Device Package       16-LFCSP-WQ (3x3)         Mounting Type       -	Series	nanoDAC+?
Settling Time8μsOutput TypeVoltage - BufferedDifferential OutputNoData InterfaceI2CReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 5.5 VVoltage - Supply, Digital1.8 V ~ 5.5 VINL/DNL (LSB)±1, ±1 (Max)ArchitectureString DACOperating Temperature-40°C ~ 105°CPackage / Case16-WFQFN Exposed Pad, CSPSupplier Device Package16-LFCSP-WQ (3x3)Mounting Type-	Number of Bits	16
Output Type  Differential Output  No  Data Interface  I2C  Reference Type  External, Internal  Voltage - Supply, Analog  2.7 V ~ 5.5 V  Voltage - Supply, Digital  I.8 V ~ 5.5 V  INL/DNL (LSB)  ±1, ±1 (Max)  Architecture  String DAC  Operating Temperature  -40°C ~ 105°C  Package / Case  I6-WFQFN Exposed Pad, CSP  Supplier Device Package  Mounting Type  -  Voltage - Buffered  No  External, Internal  2.7 V ~ 5.5 V  Line Company Company  External, Internal  2.7 V ~ 5.5 V  External, Internal  2.7 V ~ 5.5 V  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal  External, Internal  External, Internal  2.7 V ~ 5.5 V  Fig. Company  External, Internal	Number of D/A Converters	4
Differential Output  Data Interface  Reference Type  External, Internal  Voltage - Supply, Analog  Voltage - Supply, Digital  1.8 V ~ 5.5 V  INL/DNL (LSB)  Architecture  Operating Temperature  -40°C ~ 105°C  Package / Case  16-WFQFN Exposed Pad, CSP  Supplier Device Package  Mounting Type  -  No  No  No  12C  External, Internal  2.7 V ~ 5.5 V  1.8 V ~ 5.5 V  4.9 × 5.5 V  1.8 V ~ 5.5 V  -4.0 °C ~ 1.0 °C  -	Settling Time	8μs
Data Interface  Reference Type  External, Internal  Voltage - Supply, Analog  2.7 V ~ 5.5 V  Voltage - Supply, Digital  1.8 V ~ 5.5 V  INL/DNL (LSB)  41, ±1 (Max)  Architecture  String DAC  Operating Temperature  -40°C ~ 105°C  Package / Case  16-WFQFN Exposed Pad, CSP  Supplier Device Package  16-LFCSP-WQ (3x3)  Mounting Type  -	Output Type	Voltage - Buffered
Reference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 5.5 \text{ V}$ Voltage - Supply, Digital $1.8 \text{ V} \sim 5.5 \text{ V}$ INL/DNL (LSB) $\pm 1, \pm 1 \text{ (Max)}$ ArchitectureString DACOperating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-WFQFN Exposed Pad, CSP}$ Supplier Device Package $16\text{-LFCSP-WQ (3x3)}$ Mounting Type $-$	Differential Output	No
Voltage - Supply, Analog $2.7 \text{ V} \sim 5.5 \text{ V}$ Voltage - Supply, Digital $1.8 \text{ V} \sim 5.5 \text{ V}$ INL/DNL (LSB) $\pm 1, \pm 1 \text{ (Max)}$ ArchitectureString DACOperating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case $16\text{-WFQFN Exposed Pad, CSP}$ Supplier Device Package $16\text{-LFCSP-WQ (3x3)}$ Mounting Type-	Data Interface	12C
Voltage - Supply, Digital 1.8 V ~ 5.5 V    INL/DNL (LSB) $\pm 1, \pm 1$ (Max)    Architecture String DAC   Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ Package / Case 16-WFQFN Exposed Pad, CSP   Supplier Device Package 16-LFCSP-WQ (3x3)   Mounting Type -	Reference Type	External, Internal
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Voltage - Supply, Analog	2.7 V ~ 5.5 V
Architecture String DAC  Operating Temperature -40°C ~ 105°C  Package / Case 16-WFQFN Exposed Pad, CSP  Supplier Device Package 16-LFCSP-WQ (3x3)  Mounting Type -	Voltage - Supply, Digital	1.8 V ~ 5.5 V
Operating Temperature -40°C ~ 105°C  Package / Case 16-WFQFN Exposed Pad, CSP  Supplier Device Package 16-LFCSP-WQ (3x3)  Mounting Type -	INL/DNL (LSB)	$\pm 1, \pm 1$ (Max)
Package / Case 16-WFQFN Exposed Pad, CSP  Supplier Device Package 16-LFCSP-WQ (3x3)  Mounting Type -	Architecture	String DAC
Supplier Device Package 16-LFCSP-WQ (3x3)  Mounting Type -	Operating Temperature	-40°C ~ 105°C
Mounting Type -	Package / Case	16-WFQFN Exposed Pad, CSP
	Supplier Device Package	16-LFCSP-WQ (3x3)
Report errors?	Mounting Type	-
The state of the s		Report errors?

#### **AD5696RBCPZ-RL7 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.

### **AD5696RBCPZ-RL7 Payment Methods**

































If you have any question about AD5696RBCPZ-RL7, please do not hesitate to contact us!

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