

# MAX1037LEKA+T

### MAX1037LEKA+T Information

|                    | MAX1037LEKA+T<br>Maxim Integrated<br>Integrated Circuits (ICs)<br>Data Acquisition - Analog to Digital Converters<br>(ADC) |                 |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|
| Description        | IC ADC 8BIT LP SERIAL SOT23-8                                                                                              | E301442 -       |
| Package            | SOT-23-8                                                                                                                   | 一面 消退剂          |
| For Reference Only | For the pricing/inventory/lead time, please contact                                                                        |                 |
|                    | Website: https://www.heisener.com<br>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.



## MAX1037LEKA+T Specifications

| Manufacturer Maxim Integrated   Manufacturer Maxim Integrated   Category Data Acquisition - Analog to Digital Converters (ADC)   Package SOT-23-8   Series -   Number of Bits 8   Sampling Rate (Per Second) 188k   Number of Inputs 2,4   Input Type Differential, Single Ended   Data Interface I2C   Configuration MUX-S/H-ADC   Number of A/D Converters 1   Architecture SAR   Reference Type External, Internal   Voltage - Supply, Analog 2,7 V ~ 3.6 V   Voltage - Supply, Digital 2,7 V ~ 3.6 V   Features -   Operating Temperature 40°C ~ 85°C   Package / Case SOT-23-8   Supplier Device Package SOT-23-8 |                            |                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------|
| CategoryIntegrated Circuits (ICs)Data Acquisition - Analog to Digital Converters (ADC)PackageSOT-23-8Series-Number of Bits8Sampling Rate (Per Second)188kNumber of Inputs2,4Input TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCNumber of A/D Converters1Number of A/D Converters1Reference TypeExternal, InternalVoltage - Supply, Analog2,7 V ~ 3.6 VVoltage - Supply, Digital-Features-Operating Temperature40°C ~ 85°CPackage / CaseSOT-23-8Mounting Type-Oter PackageSOT-23-8Mounting Type-                                                                                              | Manufacturer Part Number   | MAX1037LEKA+T                                         |
| Data Acquisition - Analog to Digital Converters (ADC)PackageSOT-23-8Series-Number of Bits8Sampling Rate (Per Second)188kNumber of Inputs2, 4Input TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                            | Manufacturer               | Maxim Integrated                                      |
| PackageSOT-23-8Series-Number of Bits8Sampling Rate (Per Second)188kNumber of Inputs2, 4Input TypeDifferential, Single EndedData Interface12CConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1Reference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital-Peckage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                      | Category                   | Integrated Circuits (ICs)                             |
| Series -   Number of Bits 8   Sampling Rate (Per Second) 188k   Number of Inputs 2, 4   Input Type Differential, Single Ended   Data Interface I2C   Configuration MUX-S/H-ADC   Ratio - S/H:ADC 1:1   Number of A/D Converters 1   Architecture SAR   Reference Type External, Internal   Voltage - Supply, Analog 2.7 V ~ 3.6 V   Voltage - Supply, Digital 2.7 V ~ 3.6 V   Peatures -   Operating Temperature 40°C ~ 85°C   Package / Case SOT-23-8   Supplier Device Package SOT-23-8                                                                                                                              |                            | Data Acquisition - Analog to Digital Converters (ADC) |
| Number of Bits8Sampling Rate (Per Second)188kNumber of Inputs2, 4Input TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1.1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltag - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital-Peatures-Operating Temperature40°C ~ 85°CSupplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                           | Package                    | SOT-23-8                                              |
| Sampling Rate (Per Second)188kNumber of Inputs2, 4Input TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1.1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital-Peatures-Package / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                   | Series                     | -                                                     |
| Number of Inputs2, 4Input TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                           | Number of Bits             | 8                                                     |
| Input TypeDifferential, Single EndedInput TypeDifferential, Single EndedData InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital-Peatures-Operating Temperature40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                 | Sampling Rate (Per Second) | 188k                                                  |
| Data InterfaceI2CConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                                                                                    | Number of Inputs           | 2, 4                                                  |
| ConfigurationMUX-S/H-ADCRatio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital-Peatures-Operating Temperature40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                                                                                                                 | Input Type                 | Differential, Single Ended                            |
| Ratio - S/H:ADC1:1Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                                                                                                                            | Data Interface             | I2C                                                   |
| Number of A/D Converters1ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                                                                                                                                              | Configuration              | MUX-S/H-ADC                                           |
| ArchitectureSARReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device Package-Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                       | Ratio - S/H:ADC            | 1:1                                                   |
| Reference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                               | Number of A/D Converters   | 1                                                     |
| Voltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                               | Architecture               | SAR                                                   |
| Voltage - Supply, Digital2.7 V ~ 3.6 VFeatures-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Reference Type             | External, Internal                                    |
| Features-Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Voltage - Supply, Analog   | 2.7 V ~ 3.6 V                                         |
| Operating Temperature-40°C ~ 85°CPackage / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Voltage - Supply, Digital  | 2.7 V ~ 3.6 V                                         |
| Package / CaseSOT-23-8Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Features                   | -                                                     |
| Supplier Device PackageSOT-23-8Mounting Type-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Operating Temperature      | -40°C ~ 85°C                                          |
| Mounting Type -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Package / Case             | SOT-23-8                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Supplier Device Package    | SOT-23-8                                              |
| Report errors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mounting Type              | -                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Report errors?                                        |

#### MAX1037LEKA+T 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.

#### MAX1037LEKA+T Payment Methods



## MAX1037LEKA+T Shipping Methods



If you have any question about MAX1037LEKA+T, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com