

# PIC16LF1829-E/P

#### PIC16LF1829-E/P Information

| WILLIAM PHANNA     | <br>PIC16LF1829-E/P<br>Microchip Technology<br>Integrated Circuits (ICs)<br>Embedded - Microcontrollers<br>IC MCU 8BIT 14KB FLASH 20DIP<br>20-DIP (0.300", 7.62mm)<br>For the pricing/inventory/lead time, please contact |                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| For Reference Only | us<br>Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com                                                                                                                                                 | Request a Quote |

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### PIC16LF1829-E/P Specifications

| Manufacturer Microchip Technology   Manufacturer Microchip Technology   Manufacturer Microchip Technology   Category Integrated Circuits (ICs)   Embedded - Microcontrollers 20-DIP (0.300", 7.62mm)   Package 20-DIP (0.300", 7.62mm)   Series PIC   Core Processor PIC   Core Size 8-Bit   Speed 32MHz   Connectivity I2C, LIN, SPI, UART/USART   Porpara Memory Size I4KB (8K x 14)   Program Memory Size I4KB (8K x 14)   Program Memory Type FLASH   EEPROM Size 256 x 8   RAM Size IX x 8   Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V   Data Converters A/D 12x10b   Oscillator Type Internal   Operating Temperature -40°C ~ 125°C (TA)   Mounting Type -   Package / Case 20-DIP (0.300", 7.62mm) |                            |                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage20-DIP (0.300", 7.62mm)SeriesPIC? XLP? mTouch? 16FCore ProcessorPICCore Size8-BitSpeed32MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                      | Manufacturer Part Number   | PIC16LF1829-E/P                       |
| Enbedded - MicrocontrollersPackage20-DIP (0.300°, 7.62mm)PackagePIC? XLP? mTouch? 16FCore ProcessorPICCore Size8-BitSpeed32MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Pergram Memory Type526 x 8RAM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300°, 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                               | Manufacturer               | Microchip Technology                  |
| Package20-DIP (0.300", 7.62mm)SeriesPIC? XLP? mTouch? 16FCore ProcessorPICCore Size8-BitSpeed32MHzConcetivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)PERPOM Size256 x 8RAM Size1.8 V ~ 3.6 VVoltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOperating Temperature440°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                    | Category                   | Integrated Circuits (ICs)             |
| SeriesPIC? XLP? mTouch? 16FCore ProcessorPICCore Size8-BitSpeed32MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator Type-Prackage / Case20-DIP (0.300°, 7.62mm)Supplier Device Package0-PDIP                                                                                                                                                                                                                                                                                                   |                            | Embedded - Microcontrollers           |
| Core ProcessorPICCore Size8-BitSpeed32MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator Type-Program Type-Prokage / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                   | Package                    | 20-DIP (0.300", 7.62mm)               |
| Core Size8-BitSpeed32MHzConnectivityICC, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case30-DIP (0.300", 7.62mm)Supplier Device Package0-PDIP                                                                                                                                                                                                                                                                                                           | Series                     | PIC? XLP? mTouch? 16F                 |
| Speed32MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator Type-Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                          | Core Processor             | PIC                                   |
| ConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOperating Temperature-Potage / Case20-DIP (0.300", 7.62mm)Supplier Device Package0-PDIP                                                                                                                                                                                                                                                                                                                                                     | Core Size                  | 8-Bit                                 |
| PeripheralsBrown-out Detect/Reset, POR, PWM, WDTNumber of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                  | Speed                      | 32MHz                                 |
| Number of I/O17Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                  | Connectivity               | I2C, LIN, SPI, UART/USART             |
| Program Memory Size14KB (8K x 14)Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                 | Peripherals                | Brown-out Detect/Reset, POR, PWM, WDT |
| Program Memory TypeFLASHEEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                   | Number of I/O              | 17                                    |
| EEPROM Size256 x 8RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Program Memory Size        | 14KB (8K x 14)                        |
| RAM Size1K x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Program Memory Type        | FLASH                                 |
| Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EEPROM Size                | 256 x 8                               |
| Data ConvertersA/D 12x10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RAM Size                   | 1K x 8                                |
| Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Voltage - Supply (Vcc/Vdd) | 1.8 V ~ 3.6 V                         |
| Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Data Converters            | A/D 12x10b                            |
| Mounting Type-Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Oscillator Type            | Internal                              |
| Package / Case20-DIP (0.300", 7.62mm)Supplier Device Package20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Operating Temperature      | -40°C ~ 125°C (TA)                    |
| Supplier Device Package 20-PDIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mounting Type              | -                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Package / Case             | 20-DIP (0.300", 7.62mm)               |
| Report errors?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Supplier Device Package    | 20-PDIP                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | Report errors?                        |

#### PIC16LF1829-E/P 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.

## PIC16LF1829-E/P Payment Methods



### PIC16LF1829-E/P Shipping Methods



If you have any question about PIC16LF1829-E/P, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com