

# PIC18F46K42-I/MV

#### PIC18F46K42-I/MV Information

| Heisener.com<br>Gidal lerves sant ter | <br>PIC18F46K42-I/MV<br>Microchip Technology<br>Integrated Circuits (ICs)<br>Embedded - Microcontrollers<br>IC MCU 8BIT 64KB FLASH 40UQFN<br>-<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 |

## **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.



### PIC18F46K42-I/MV Specifications

| Manufacturer Part Number PIC18F46K42-I/MV   Manufacturer Microchip Technology   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package -   Stries PIC? XLP? 18K   Core Processor PIC   Core Size 8-Bit   Speed 64MHz   Connectivity ICc, LIN, SPI, UART/USART   Peripherals Brown-out Detect/Reset, DMA, HLVD, POR, PWM, WDT   Number of I/O 36   Program Memory Size 64KB (32K x 16)   Program Memory Type FLASH   EEPROM Size IK x 8   Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V   Data Converters A/D 35x12b, D/A 1x5b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case -   Supplier Device Package -  |                            |  |                |
|---|----------------------------|--|----------------|
| Category Integrate Circuits (ICs)   Integrate Circuits (ICs)   Embedded - Microcontrollers   Package -   Series PIC? XLP? 18K   Core Processor PIC   Core Size 8-Bit   Speed 64MHz   Connectivity I2C, LIN, SPI, UART/USART   Peripherals Brown-out Detect/Reset, DMA, HLVD, POR, PWM, WDT   Number of I/O 36   Program Memory Size 64KB (32K x 16)   Program Memory Type FLASH   EEPROM Size IX x 8   Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V   Data Converters A/D 35x12b, D/A 1x5b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case -   Supplier Device Package -  | Manufacturer Part Number   | PIC18F46K42-I/MV                                 |                |
| Hendedde - MicrocontrollersPackage-SeriesPIC? XLP? 18KCore ProcessorPICCore Size8-BitSpeed64MHzConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-   | Manufacturer               | Microchip Technology                             |                |
| Package-SeriesJC? XLP? 18KCore ProcessorJCCore Size8-BitSpeed64MHzConnectivityJC, LIN, SPI, UART/USARTPeripheralsBrown-out Detec/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O64KB (32K x 16)Program Memory SizeFLASHEEPROM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VOscillator TypeHernalOperating TemperatureA/D 53x12b, D/A 1x5bOscillator Type-Admong Type-Operating Temperature-Apackage / Case-Supplier Device Package-Supplier Device Package-Supplier Device Package-  | Category                   | Integrated Circuits (ICs)                        |                |
| SeriesPIC? XLP? 18KCore ProcessorPICCore Size8-BitSpeed64MHzConnectivity12C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator Type.Operating Temperature40°C ~ 85°C (TA)Mounting Type.Package / Case.Supplier Device Package.  |                            | Embedded - Microcontrollers                      |                |
| Core ProcessorPICCore Size8-BitSpeed64MHzConnectivityIC, LIN, SPI, UART/USARTPorpheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O64Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersAD 35x12b, D/A 1x5bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Prokage / Case.Supplier Device Package-Supplier Dev | Package                    | -  |                |
| Core Size8-BitSpeed64MHzConnectivityIC, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeELASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersAID 35x12b, D/A 1x5bOscillator Type-40°C ~ 85°C (TA)Mounting Type-Package / Case.Supplier Device Package.  | Series                     | PIC? XLP? 18K                                    |                |
| Speed64MHzConnectivityIC, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersArd 35x12b, D/A 1x5bOperating Temperature40°C ~ 85°C (TA)Mounting Type-Package / Case.Supplier Device Package-Supplier Device Package-   | Core Processor             | PIC  |                |
| ConnectivityI2C, LIN, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case-Supplier Device Package-  | Core Size                  | 8-Bit  |                |
| PeripheralsBrown-out Detect/Reset, DMA, HLVD, POR, PWM, WDTNumber of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator Type-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | Speed                      | 64MHz  |                |
| Number of I/O36Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | Connectivity               | I2C, LIN, SPI, UART/USART                        |                |
| Program Memory Size64KB (32K x 16)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-   | Peripherals                | Brown-out Detect/Reset, DMA, HLVD, POR, PWM, WDT |                |
| Program Memory TypeFLASHEEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | Number of I/O              | 36   |                |
| EEPROM Size1K x 8RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-   | Program Memory Size        | 64KB (32K x 16)                                  |                |
| RAM Size4K x 8Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | Program Memory Type        | FLASH  |                |
| Voltage - Supply (Vcc/Vdd)2.3 V ~ 5.5 VData ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | EEPROM Size                | 1K x 8   |                |
| Data ConvertersA/D 35x12b, D/A 1x5bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-   | RAM Size                   | 4K x 8   |                |
| Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-  | Voltage - Supply (Vcc/Vdd) | 2.3 V ~ 5.5 V                                    |                |
| Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case-Supplier Device Package-   | Data Converters            | A/D 35x12b, D/A 1x5b                             |                |
| Mounting Type-Package / Case-Supplier Device Package-   | Oscillator Type            | Internal   |                |
| Package / Case-Supplier Device Package-   | Operating Temperature      | -40°C ~ 85°C (TA)                                |                |
| Supplier Device Package -   | Mounting Type              | -  |                |
|   | Package / Case             | -  |                |
| Report errors?  | Supplier Device Package    | -  |                |
|   |                            |  | Report errors? |

#### PIC18F46K42-I/MV 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 EUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### PIC18F46K42-I/MV Payment Methods





If you have any question about PIC18F46K42-I/MV, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com