

PIC16F883-E/SO



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Part Number: [PIC16F883-E/SO](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 7KB FLASH 28SOIC

Data sheet:  [PIC16F882-84/86-87](#)  
 [Next Generation Peripherals Brochure](#)  
 [Tips N Tricks Guide](#)  
 [PIC16F88x Errata](#)  
 [Timer1 Errata](#)  
 [PIC16F88x Programming Spec](#)

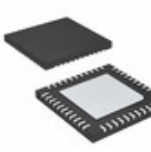
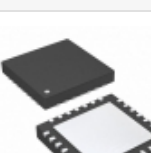
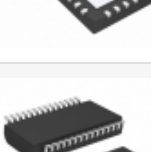
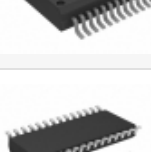
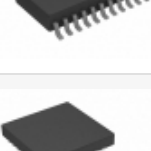
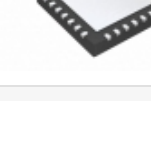
RoHs Status: Lead free / RoHS Compliant

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                         |                                 |                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PIC16F883-E/SO                                                          | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 8BIT 7KB FLASH 28SOIC                                            | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                                                           |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 49033 pcs                                                               | Data sheet                      | <a href="#">PIC16F882-84/86-87</a><br><a href="#">Next Generation Peripherals Brochure</a><br><a href="#">Tips N Tricks Guide</a><br><a href="#">PIC16F88x Errata</a><br><a href="#">Timer1 Errata</a><br><a href="#">PIC16F88x Programming Spec</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a>                               | Voltage - Supply (Vcc/Vdd)      | 2 V ~ 5.5 V                                                                                                                                                                                                                                          |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 28-SOIC                                                                 | Speed                           | 20MHz                                                                                                                                                                                                                                                |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PIC® 16F                                                                | RAM Size                        | 256 x 8                                                                                                                                                                                                                                              |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FLASH                                                                   | Program Memory Size             | 7KB (4K x 14)                                                                                                                                                                                                                                        |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Brown-out Detect/Reset, POR, PWM, WDT                                   | Packaging                       | Tube                                                                                                                                                                                                                                                 |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 28-SOIC (0.295", 7.50mm Width)                                          | Oscillator Type                 | Internal                                                                                                                                                                                                                                             |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40°C ~ 125°C (TA)                                                      | Number of I/O                   | 24                                                                                                                                                                                                                                                   |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 (Unlimited)                                                           | Manufacturer Standard Lead Time | 5 Weeks                                                                                                                                                                                                                                              |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lead free / RoHS Compliant                                              | EEPROM Size                     | 256 x 8                                                                                                                                                                                                                                              |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PIC PIC® 16F Microcontroller IC 8-Bit 20MHz 7KB (4K x 14) FLASH 28-SOIC | Data Converters                 | A/D 11x10b                                                                                                                                                                                                                                           |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8-Bit                                                                   | Core Processor                  | PIC                                                                                                                                                                                                                                                  |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I²C, SPI, UART/USART                                                    | Base Part Number                | PIC16F883                                                                                                                                                                                                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                              |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">PIC16F884-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 44QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F883-I/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 28SSOP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F882T-I/SS</a><br>Description: IC MCU 8BIT 3.5KB FLASH 28SSOP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F883-E/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 28SSOP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F882-I/SP</a><br>Description: IC MCU 8BIT 3.5KB FLASH 28SDIP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F883-I/SO</a><br>Description: IC MCU 8BIT 7KB FLASH 28SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">PIC16F883-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 28QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <a href="#">RFQ</a> |
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