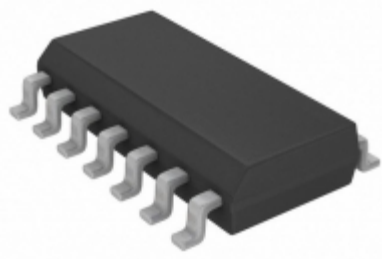


PIC16F688T-E/SL



Images are for reference only.  
See Product Specifications for product details.  
Buy PIC16F688T-E/SL with confidence from  
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Part Number: [PIC16F688T-E/SL](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 7KB FLASH 14SOIC

Data sheet: 

 [PIC16F688 Rev A3 Errata](#)

 [PIC12F6xx,PIC16F6xx Programming Spec](#)

 [Tips N Tricks Guide](#)

 [Timer1 Errata](#)

 [PIC16F688 Rev A4 Silicon/Data Sheet Errata](#)

 [PIC16F688 Data Sheet](#)

 [PICmicro™ Reference Manual](#)

 [MPLAB® ICE2000 Spec](#)

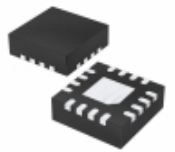
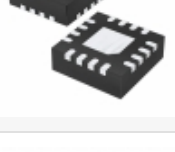
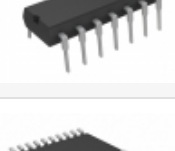
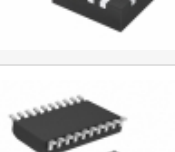
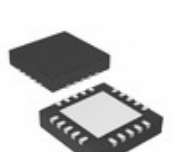
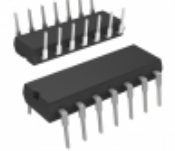
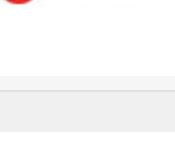
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PIC16F688T-E/SL                                                         | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                                                                                                                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 8BIT 7KB FLASH 14SOIC                                            | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 73741 pcs                                                               | Data sheet                      | <div><a href="#">PIC16F688 Rev A3 Errata</a></div> <div><a href="#">PIC12F6xx,PIC16F6xx Programming Spec</a></div> <div><a href="#">Tips N Tricks Guide</a></div> <div><a href="#">Timer1 Errata</a></div> <div><a href="#">PIC16F688 Rev A4 Silicon/Data Sheet Errata</a></div> <div><a href="#">PIC16F688 Data Sheet</a></div> <div><a href="#">PICmicro™ Reference Manual</a></div> <div><a href="#">MPLAB® ICE2000 Spec</a></div> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                               | Voltage - Supply (Vcc/Vdd)      | 2 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14-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, WDT                                        | Packaging                       | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 14-SOIC (0.154", 3.90mm Width)                                          | Oscillator Type                 | Internal                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 125°C (TA)                                                      | Number of I/O                   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 (Unlimited)                                                           | Manufacturer Standard Lead Time | 17 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 14-SOIC | Data Converters                 | A/D 8x10b                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8-Bit                                                                   | Core Processor                  | PIC                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UART/USART                                                              | Base Part Number                | PIC16F688                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                       |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">PIC16F688-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 16QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-E/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 20SSOP    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688T-I/ST</a><br>Description: IC MCU 8BIT 7KB FLASH 14TSSOP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688T-I/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 16QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688T-I/SL</a><br>Description: IC MCU 8BIT 7KB FLASH 14SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-I/P</a><br>Description: IC MCU 8BIT 7KB FLASH 14DIP      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-E/SO</a><br>Description: IC MCU 8BIT 7KB FLASH 20SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-I/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 16QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F687T-I/SO</a><br>Description: IC MCU 8BIT 3.5KB FLASH 20SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-I/P</a><br>Description: IC MCU 8BIT 7KB FLASH 20DIP      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 20QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-E/SL</a><br>Description: IC MCU 8BIT 7KB FLASH 14SOIC    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-I/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 20QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689-E/P</a><br>Description: IC MCU 8BIT 7KB FLASH 20DIP      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-E/P</a><br>Description: IC MCU 8BIT 7KB FLASH 14DIP      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-I/ST</a><br>Description: IC MCU 8BIT 7KB FLASH 14TSSOP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F688-E/ST</a><br>Description: IC MCU 8BIT 7KB FLASH 14TSSOP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">PIC16F687T-I/SS</a><br>Description: IC MCU 8BIT 3.5KB FLASH 20SSOP | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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