

PIC16F690-I/ML



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Part Number: [PIC16F690-I/ML](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 7KB FLASH 20QFN

Data sheet:  [PIC16F690DM-PCTLHS App Note](#)  
 [PIC12F6xx,PIC16F6xx Programming Spec](#)  
 [PIC16F631, 68x, 690 Datasheet](#)  
 [Tips N Tricks Guide](#)  
 [Timer1 Errata](#)  
 [Humidity Sensor PICtail Users Guide](#)  
 [PIC16F6xx Revision A Errata](#)

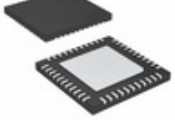
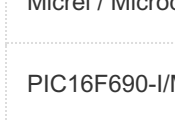
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                  |                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PIC16F690-I/ML                            | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IC MCU 8BIT 7KB FLASH 20QFN               | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 67856 pcs                                 | Data sheet                       | <a href="#">PIC16F690DM-PCTLHS App Note</a><br><a href="#">PIC12F6xx,PIC16F6xx Programming Spec</a><br><a href="#">PIC16F631, 68x, 690 Datasheet</a><br><a href="#">Tips N Tricks Guide</a><br><a href="#">Timer1 Errata</a><br><a href="#">Humidity Sensor PICtail Users Guide</a><br><a href="#">PIC16F6xx Revision A Errata</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20-QFN (4x4)                              | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20-VFQFN Exposed Pad                      | Other Names                      | PIC16F690IML                                                                                                                                                                                                                                                                                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18                                        | Moisture Sensitivity Level (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                                                      |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30 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 20-QFN (4x4)                                                                                                                                                                                                                                                       |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A/D 12x10b                                | Core Size                        | 8-Bit                                                                                                                                                                                                                                                                                                                              |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PIC                                       | Connectivity                     | PC, SPI, UART/USART                                                                                                                                                                                                                                                                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PIC16F690                                 |                                  |                                                                                                                                                                                                                                                                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                            |                                                              |                |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | 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="#">PIC16F690T-E/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 20SSOP        | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F707-E/P</a><br>Description: IC MCU 8BIT 14KB FLASH 40DIP          | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">PIC16F689-I/SO</a><br>Description: IC MCU 8BIT 7KB FLASH 20SOIC         | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F690DM-PCTLHS</a><br>Description: BOARD DEMO PICTAIL HUMIDITY SNSR | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F690-E/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 20QFN          | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F690-I/P</a><br>Description: IC MCU 8BIT 7KB FLASH 20DIP           | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F690T-I/SS</a><br>Description: IC MCU 8BIT 7KB FLASH 20SSOP        | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F689T-I/ML</a><br>Description: IC MCU 8BIT 7KB FLASH 20QFN         | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">PIC16F707-E/ML</a><br>Description: IC MCU 8BIT 14KB FLASH 44QFN         | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">PIC16F690-I/SO</a><br>Description: IC MCU 8BIT 7KB FLASH 20SOIC         | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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