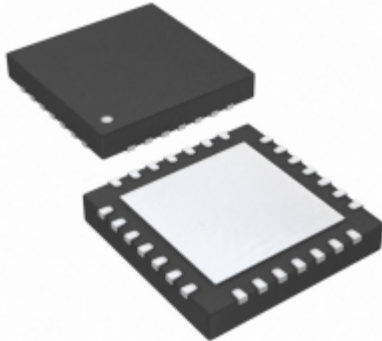


DSPIC30F2011-30I/ML



Images are for reference only.  
See Product Specifications for product details.  
Buy DSPIC30F2011-30I/ML with confidence from  
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Part Number: DSPIC30F2011-30I/ML

Manufacturer: Micrel / Microchip Technology

Description: IC MCU 16BIT 12KB FLASH 28QFN

Data sheet:  [dsPIC30F2011/2012/3012/3013](#)  
 [16-bit Embedded Control Solutions](#)  
 [dsPIC30F Section 35. Serial Peripheral](#)  
 [Interface\(S\)](#)  
 [dsPIC30F2011,2012 Errata & Clarification](#)  
 [DSPIC30F Flash Programming Specification](#)

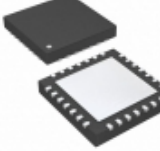
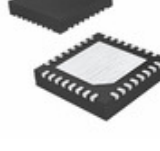
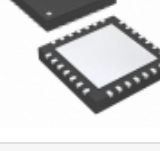
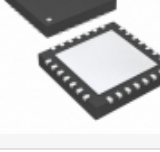
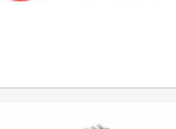
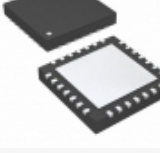
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                  |                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DSPIC30F2011-30I/ML                       | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                      |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC MCU 16BIT 12KB FLASH 28QFN             | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                         |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 34919 pcs                                 | Data sheet                       | <a href="#">dsPIC30F2011/2012/3012/3013</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC30F Section 35. Serial Peripheral Interface(S</a><br><a href="#">dsPIC30F2011,2012 Errata &amp; Clarification</a><br><a href="#">DSPIC30F Flash Programming Specification</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                      |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 28-QFN (6x6)                              | Speed                            | 30 MIPS                                                                                                                                                                                                                                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dsPIC™ 30F                                | RAM Size                         | 1K x 8                                                                                                                                                                                                                                                                                             |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FLASH                                     | Program Memory Size              | 12KB (4K x 24)                                                                                                                                                                                                                                                                                     |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Brown-out Detect/Reset, POR, PWM, WDT     | Packaging                        | Tube                                                                                                                                                                                                                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28-VQFN Exposed Pad                       | Other Names                      | DSPIC30F201130IML                                                                                                                                                                                                                                                                                  |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12                                        | Moisture Sensitivity Level (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                      |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 Weeks                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                         |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                         | Detailed Description             | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 30 MIPS 12KB (4K x 24) FLASH 28-QFN (6x6)                                                                                                                                                                                                               |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A/D 8x12b                                 | Core Size                        | 16-Bit                                                                                                                                                                                                                                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | dsPIC                                     | Connectivity                     | PC, SPI, UART/USART                                                                                                                                                                                                                                                                                |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DSPIC30F2011                              |                                  |                                                                                                                                                                                                                                                                                                    |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">DSPIC30F2011T-20I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 18SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2012-20E/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011-30I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 18SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2010T-30I/MM</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011-30I/P</a><br>Description: IC MCU 16BIT 12KB FLASH 18DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011-20I/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011T-20E/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011T-20E/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 18SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011T-20I/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC30F2011-20E/P</a><br>Description: IC MCU 16BIT 12KB FLASH 18DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2010T-30I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2010T-20I/SOG</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011T-30I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 18SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2010T-20I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2012-20E/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|                                                   |                                                   |                                          |                                                            |
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