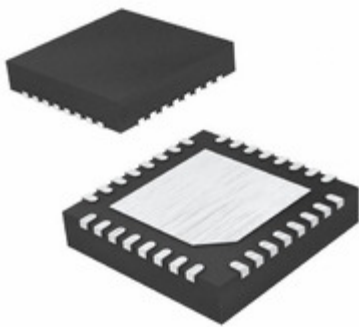


DSPIC30F2010T-20I/MM





Part Number: [DSPIC30F2010T-20I/MM](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 12KB FLASH 28QFN

Data sheet:  [dsPIC30F2010 Datasheet](#)  
 [dsPIC30F2010 Errata & Data Sheet Clarification](#)  
 [16-bit Embedded Control Solutions](#)  
 [dsPIC30F Section 35. Serial Peripheral](#)  
 [DSPIC30F Flash Programming Specification](#)

RoHs Status: Lead free / RoHS Compliant

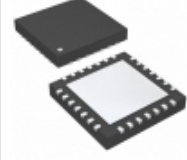
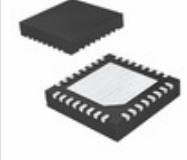
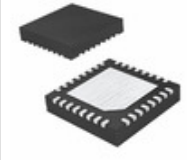
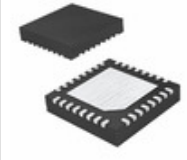
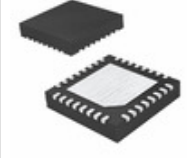
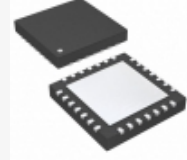
Ship From: Hong Kong

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

Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                        |                                 |                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DSPIC30F2010T-20I/MM                                                                   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 35324 pcs                                                                              | Data sheet                      | <a href="#">dsPIC30F2010 Datasheet</a><br><a href="#">dsPIC30F2010 Errata &amp; Data Sheet Clarification</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC30F Section 35. Serial Peripheral</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-S (6x6)                                                                         | Speed                           | 20 MIPS                                                                                                                                                                                                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dsPIC™ 30F                                                                             | RAM Size                        | 512 x 8                                                                                                                                                                                                                                                                                 |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FLASH                                                                                  | Program Memory Size             | 12KB (4K x 24)                                                                                                                                                                                                                                                                          |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT                          | Packaging                       | Tape & Reel (TR)                                                                                                                                                                                                                                                                        |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 28-VQFN Exposed Pad                                                                    | Oscillator Type                 | Internal                                                                                                                                                                                                                                                                                |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -40°C ~ 85°C (TA)                                                                      | Number of I/O                   | 20                                                                                                                                                                                                                                                                                      |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 (Unlimited)                                                                          | Manufacturer Standard Lead Time | 8 Weeks                                                                                                                                                                                                                                                                                 |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lead free / RoHS Compliant                                                             | EEPROM Size                     | 1K x 8                                                                                                                                                                                                                                                                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 20 MIPS 12KB (4K x 24) FLASH 28-QFN-S (6x6) | Data Converters                 | A/D 6x10b                                                                                                                                                                                                                                                                               |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16-Bit                                                                                 | Core Processor                  | dsPIC                                                                                                                                                                                                                                                                                   |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I²C, SPI, UART/USART                                                                   | Base Part Number                | DSPIC30F2010                                                                                                                                                                                                                                                                            |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">DSPIC30F2010-20E/SP</a><br>Description: IC MCU 16BIT 12KB FLASH 28SDIP   | 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="#">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="#">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="#">DSPIC30F2011-20I/P</a><br>Description: IC MCU 16BIT 12KB FLASH 18DIP     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | 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="#">DSPIC30F2010-30I/SOG</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2011-20I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 18SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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