

DSPIC30F2020T-30I/SO



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Part Number: DSPIC30F2020T-30I/SO

Manufacturer: Micrel / Microchip Technology

Description: IC MCU 16BIT 12KB FLASH 28SOIC

Data sheet:  [dsPIC30F1010/202x Datasheet](#)  
 [16-bit Embedded Control Solutions](#)  
 [dsPIC30F Section 35. Serial Peripheral Interface\(S](#)  
 [DSPIC30F Flash Programming Specification](#)  
 [dsPIC30F SMPS Flash Prog Spec](#)  
 [dsPIC30F1010, 202x Errata & Datasheet](#)  
[Clarificatio](#)

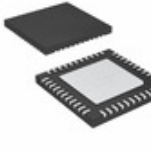
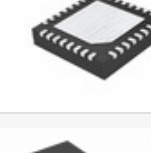
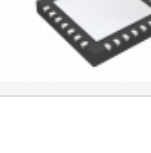
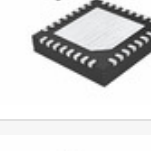
RoHs Status: Lead free / RoHS Compliant

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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                  |                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                   | DSPIC30F2020T-30I/SO                      | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                                                                                                                                                                                                                                                                 |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC MCU 16BIT 12KB FLASH 28SOIC            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                            | 23337 pcs                                 | Data sheet                       | <a href="#">dsPIC30F1010/202x Datasheet</a><br><a href="#">16-bit Embedded Control Solutions</a><br><a href="#">dsPIC30F Section 35. Serial Peripheral Interface(S</a><br><a href="#">DSPIC30F Flash Programming Specification</a><br><a href="#">dsPIC30F SMPS Flash Prog Spec</a><br><a href="#">dsPIC30F1010, 202x Errata &amp; Datasheet Clarificatio</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                       | 28-SOIC                                   | Speed                            | 30 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, POR, PWM, WDT     | Packaging                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                              |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                | 28-SOIC (0.295", 7.50mm Width)            | Other Names                      | DSPIC30F2020T-30I/SOTR                                                                                                                                                                                                                                                                                                                                        |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                               | Internal                                  | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                             |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21                                        | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                 |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                               | 12 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-SOIC                                                                                                                                                                                                                                                                               |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                               | A/D 8x10b                                 | Core Size                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                        |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                | dsPIC                                     | Connectivity                     | I²C, IrDA, LINbus, SPI, UART/USART                                                                                                                                                                                                                                                                                                                            |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                              | DSPIC30F2020                              |                                  |                                                                                                                                                                                                                                                                                                                                                               |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">DSPIC30F2023T-30I/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 44QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-30I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2012T-30I/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F3010-20E/SO</a><br>Description: IC MCU 16BIT 24KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-20E/MM</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2023-30I/PT</a><br>Description: IC MCU 16BIT 12KB FLASH 44TQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-20E/SP</a><br>Description: IC MCU 16BIT 12KB FLASH 28SDIP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-20E/SO</a><br>Description: IC MCU 16BIT 12KB FLASH 28SOIC   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-30I/MMB32</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2012T-30I/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020-30I/SP</a><br>Description: IC MCU 16BIT 12KB FLASH 28SDIP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2023-30I/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F2020T-30I/MM</a><br>Description: IC MCU 16BIT 12KB FLASH 28QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F3010-20I/ML</a><br>Description: IC MCU 16BIT 24KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC30F2020-30I/MM</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="#">DSPIC30F2023-20E/ML</a><br>Description: IC MCU 16BIT 12KB FLASH 44QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">DSPIC30F3010-20E/SP</a><br>Description: IC MCU 16BIT 24KB FLASH 28SDIP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |

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|----------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|
| Related keywords for DSPIC30F2020T-30I/SO          |                                                    |                                           |                                                             |
| Micrel / Microchip Technology DSPIC30F2020T-30I/SO | DSPIC30F2020T-30I/SO distributor                   | DSPIC30F2020T-30I/SO supplier             | DSPIC30F2020T-30I/SO price                                  |
|                                                    | DSPIC30F2020T-30I/SO download datasheet            | DSPIC30F2020T-30I/SO datasheet            | DSPIC30F2020T-30I/SO stock                                  |
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