

MICROCHIP

Micrel / Microchip Technology



Image may be representation. See specifications for product details.

### DSPIC30F2020-30I/SO

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F2020-30I/SO                                                                                          |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                |
| Product description | IC MCU 16BIT 12KB FLASH 28SOIC                                                                               |
|                     |  1.DSPIC30F2020-30I/SO.pdf  |
|                     |  2.DSPIC30F2020-30I/SO.pdf  |
|                     |  3.DSPIC30F2020-30I/SO.pdf  |
|                     |  4.DSPIC30F2020-30I/SO.pdf  |
|                     |  5.DSPIC30F2020-30I/SO.pdf  |
|                     |  6.DSPIC30F2020-30I/SO.pdf  |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 19876 pcs stock                                                                                              |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

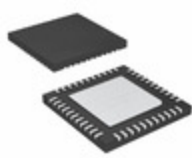
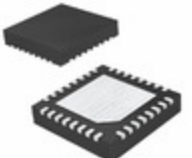
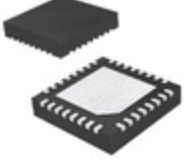
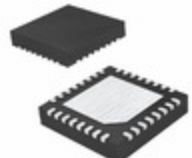
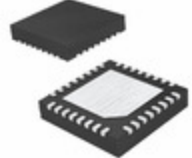
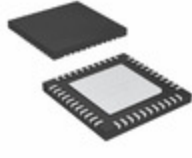
#### Specifications of DSPIC30F2020-30I/SO

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F2020-30I/SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DESCRIPTION                      | IC MCU 16BIT 12KB FLASH 28SOIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| QUANTITY AVAILABLE               | 19876 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DATA SHEET                       |  1.DSPIC30F2020-30I/SO.pdf<br> 2.DSPIC30F2020-30I/SO.pdf<br> 3.DSPIC30F2020-30I/SO.pdf<br> 4.DSPIC30F2020-30I/SO.pdf<br> 5.DSPIC30F2020-30I/SO.pdf<br> 6.DSPIC30F2020-30I/SO.pdf |
| 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                        | Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PACKAGE / CASE                   | 28-SOIC (0.295", 7.50mm Width)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OTHER NAMES                      | DSPIC30F202030ISO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NUMBER OF I/O                    | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MOISTURE SENSITIVITY LEVEL (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

#### Related Tags

|                                                   |                                          |                                                            |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F2020-30I/SO | DSPIC30F2020-30I/SO Distributor          | DSPIC30F2020-30I/SO Supplier                               |
| DSPIC30F2020-30I/SO Price                         | DSPIC30F2020-30I/SO Pictures             | DSPIC30F2020-30I/SO Image                                  |
| DSPIC30F2020-30I/SO PDF Datasheet                 | DSPIC30F2020-30I/SO Download Datasheet   | DSPIC30F2020-30I/SO Datasheet                              |
| DSPIC30F2020-30I/SO Stock                         | Buy DSPIC30F2020-30I/SO                  | Buy Micrel / Microchip Technology DSPIC30F2020-30I/SO      |
| Micrel / Microchip Technology DSPIC30F2020-30I/SO | Micrel / Microchip Technology Supplier   | Micrel / Microchip Technology Distributor                  |
| Micrel / Microchip Technology DSPIC30F2020-30I/SO | Microchip Technology DSPIC30F2020-30I/SO | Roving Networks / Microchip Technology DSPIC30F2020-30I/SO |

#### Related Products

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|  <div><b>DSPIC30F2023-20E/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 44QFN<br/>In stock: 16829 pcs<br/><b>RFQ</b></div>   |  <div><b>DSPIC30F2020-20E/MM</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28QFN<br/>In stock: 21186 pcs<br/><b>RFQ</b></div>    |
|  <div><b>DSPIC30F2012T-30I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28SOIC<br/>In stock: 32274 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F2020-30I/MMB32</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28QFN<br/>In stock: 10402 pcs<br/><b>RFQ</b></div> |
|  <div><b>DSPIC30F2020T-30I/MM</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28QFN<br/>In stock: 22237 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F2023-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 44TQFP<br/>In stock: 17627 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F2020-30I/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28SDIP<br/>In stock: 18957 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F2020-20E/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28SDIP<br/>In stock: 18964 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F2020-30I/MM</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28QFN<br/>In stock: 23426 pcs<br/><b>RFQ</b></div>   |  <div><b>DSPIC30F2020T-30I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28SOIC<br/>In stock: 23051 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F2023-30I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 44QFN<br/>In stock: 13772 pcs<br/><b>RFQ</b></div>   |  <div><b>DSPIC30F2020-20E/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 12KB FLASH 28SOIC<br/>In stock: 18853 pcs<br/><b>RFQ</b></div>   |

