

MICROCHIP

Micrel / Microchip Technology



### DSPIC30F3012T-30I/SO

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F3012T-30I/SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product description | IC MCU 16BIT 24KB FLASH 18SOIC <div> 1.DSPIC30F3012T-30I/SO.pdf<div> 2.DSPIC30F3012T-30I/SO.pdf<div> 3.DSPIC30F3012T-30I/SO.pdf<div> 4.DSPIC30F3012T-30I/SO.pdf<div> 5.DSPIC30F3012T-30I/SO.pdf</div></div></div></div></div> |
| Datasheets:         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RoHs Status         |  Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Stock Condition     | 3142 pcs stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ship From           | Hong Kong                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

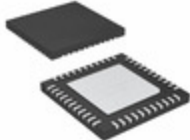
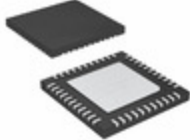
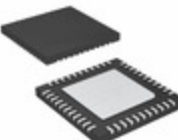
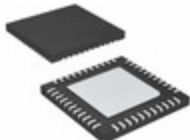
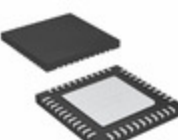
#### Specifications of DSPIC30F3012T-30I/SO

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F3012T-30I/SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DESCRIPTION                      | IC MCU 16BIT 24KB FLASH 18SOIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| QUANTITY AVAILABLE               | 3142 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DATA SHEET                       | <div> 1.DSPIC30F3012T-30I/SO.pdf<div> 2.DSPIC30F3012T-30I/SO.pdf<div> 3.DSPIC30F3012T-30I/SO.pdf<div> 4.DSPIC30F3012T-30I/SO.pdf<div> 5.DSPIC30F3012T-30I/SO.pdf</div></div></div></div></div> |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SUPPLIER DEVICE PACKAGE          | 18-SOIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SPEED                            | 30 MIPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SERIES                           | dsPIC™ 30F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RAM SIZE                         | 2K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PROGRAM MEMORY SIZE              | 24KB (8K x 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PERIPHERALS                      | Brown-out Detect/Reset, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PACKAGING                        | Tape & Reel (TR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PACKAGE / CASE                   | 18-SOIC (0.295", 7.50mm Width)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| NUMBER OF I/O                    | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MOISTURE SENSITIVITY LEVEL (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EEPROM SIZE                      | 1K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DETAILED DESCRIPTION             | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 30 MIPS 24KB (8K x 24) FLASH 18-SOIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DATA CONVERTERS                  | A/D 8x12b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CONNECTIVITY                     | I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BASE PART NUMBER                 | DSPIC30F3012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### Related Tags

|                                                    |                                           |                                                             |
|----------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F3012T-30I/SO | DSPIC30F3012T-30I/SO Distributor          | DSPIC30F3012T-30I/SO Supplier                               |
| DSPIC30F3012T-30I/SO Price                         | DSPIC30F3012T-30I/SO Pictures             | DSPIC30F3012T-30I/SO Image                                  |
| DSPIC30F3012T-30I/SO PDF Datasheet                 | DSPIC30F3012T-30I/SO Download Datasheet   | DSPIC30F3012T-30I/SO Datasheet                              |
| DSPIC30F3012T-30I/SO Stock                         | Buy DSPIC30F3012T-30I/SO                  | Buy Micrel / Microchip Technology DSPIC30F3012T-30I/SO      |
| Micrel / Microchip Technology DSPIC30F3012T-30I/SO | Micrel / Microchip Technology Supplier    | Micrel / Microchip Technology Distributor                   |
| Micrel / Microchip Technology DSPIC30F3012T-30I/SO | Microchip Technology DSPIC30F3012T-30I/SO | Roving Networks / Microchip Technology DSPIC30F3012T-30I/SO |

#### Related Products

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| <div>MICROCHIP</div> <div>DSPIC30F3013-20E/SP</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 28SDIP</div> <div>In stock: 22942 pcs</div> <div>RFQ</div> | <div></div> <div>DSPIC30F3012T-20E/ML</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 44QFN</div> <div>In stock: 4664 pcs</div> <div>RFQ</div>           |
| <div>MICROCHIP</div> <div>DSPIC30F3012-30I/SO</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 18SOIC</div> <div>In stock: 25097 pcs</div> <div>RFQ</div> | <div></div> <div>DSPIC30F3012T-30I/ML</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 44QFN</div> <div>In stock: 3631 pcs</div> <div>RFQ</div>           |
| <div></div> <div>DSPIC30F3013-20E/SO</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 28SOIC</div> <div>In stock: 19939 pcs</div> <div>RFQ</div>          | <div></div> <div>DSPIC30F3013-20I/SO</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 28SOIC</div> <div>In stock: 23948 pcs</div> <div>RFQ</div>          |
| <div></div> <div>DSPIC30F3013-20I/ML</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 44QFN</div> <div>In stock: 17862 pcs</div> <div>RFQ</div>           | <div>MICROCHIP</div> <div>DSPIC30F3012T-20E/SO</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 18SOIC</div> <div>In stock: 3774 pcs</div> <div>RFQ</div> |
| <div>MICROCHIP</div> <div>DSPIC30F3012T-20I/SO</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 18SOIC</div> <div>In stock: 2877 pcs</div> <div>RFQ</div> | <div></div> <div>DSPIC30F3012T-20I/ML</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 44QFN</div> <div>In stock: 5058 pcs</div> <div>RFQ</div>           |
| <div></div> <div>DSPIC30F3013-20E/ML</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 44QFN</div> <div>In stock: 25540 pcs</div> <div>RFQ</div>           | <div>MICROCHIP</div> <div>DSPIC30F3013-20I/SP</div> <div>Manufacturers: Micrel / Microchip Technology</div> <div>Description: IC MCU 16BIT 24KB FLASH 28SDIP</div> <div>In stock: 19678 pcs</div> <div>RFQ</div> |