



## DSPIC30F3013T-20E/ML

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F3013T-20E/ML                                                                                         |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                |
| Product description | IC MCU 16BIT 24KB FLASH 44QFN                                                                                |
|                     |  1.DSPIC30F3013T-20E/ML.pdf |
|                     |  2.DSPIC30F3013T-20E/ML.pdf |
|                     |  3.DSPIC30F3013T-20E/ML.pdf |
|                     |  4.DSPIC30F3013T-20E/ML.pdf |
|                     |  5.DSPIC30F3013T-20E/ML.pdf |
|                     |  6.DSPIC30F3013T-20E/ML.pdf |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 5104 pcs stock                                                                                               |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

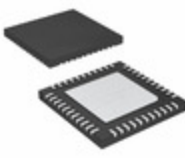
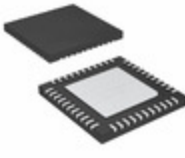
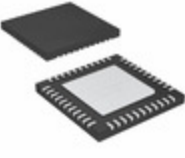
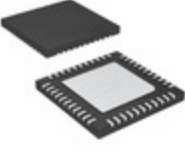
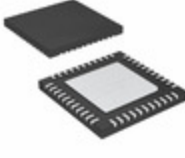
### Specifications of DSPIC30F3013T-20E/ML

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F3013T-20E/ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| DESCRIPTION                      | IC MCU 16BIT 24KB FLASH 44QFN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| QUANTITY AVAILABLE               | 5104 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DATA SHEET                       |  1.DSPIC30F3013T-20E/ML.pdf<br> 2.DSPIC30F3013T-20E/ML.pdf<br> 3.DSPIC30F3013T-20E/ML.pdf<br> 4.DSPIC30F3013T-20E/ML.pdf<br> 5.DSPIC30F3013T-20E/ML.pdf<br> 6.DSPIC30F3013T-20E/ML.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SUPPLIER DEVICE PACKAGE          | 44-QFN (8x8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SPEED                            | 20 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                   | 44-VQFN Exposed Pad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NUMBER OF I/O                    | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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 20 MIPS 24KB (8K x 24) FLASH 44-QFN (8x8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DATA CONVERTERS                  | A/D 10x12b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CONNECTIVITY                     | I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BASE PART NUMBER                 | DSPIC30F3013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Related Tags

|                                                    |                                           |                                                             |
|----------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F3013T-20E/ML | DSPIC30F3013T-20E/ML Distributor          | DSPIC30F3013T-20E/ML Supplier                               |
| DSPIC30F3013T-20E/ML Price                         | DSPIC30F3013T-20E/ML Pictures             | DSPIC30F3013T-20E/ML Image                                  |
| DSPIC30F3013T-20E/ML PDF Datasheet                 | DSPIC30F3013T-20E/ML Download Datasheet   | DSPIC30F3013T-20E/ML Datasheet                              |
| DSPIC30F3013T-20E/ML Stock                         | Buy DSPIC30F3013T-20E/ML                  | Buy Micrel / Microchip Technology DSPIC30F3013T-20E/ML      |
| Micrel / Microchip Technology DSPIC30F3013T-20E/ML | Micrel / Microchip Technology Supplier    | Micrel / Microchip Technology Distributor                   |
| Micrel / Microchip Technology DSPIC30F3013T-20E/ML | Microchip Technology DSPIC30F3013T-20E/ML | Roving Networks / Microchip Technology DSPIC30F3013T-20E/ML |

### Related Products

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|  <div><b>DSPIC30F3013T-20I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SOIC<br/>In stock: 6127 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F3013T-20I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 44QFN<br/>In stock: 26783 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F3013-20I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SOIC<br/>In stock: 23948 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F3013T-20E/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SOIC<br/>In stock: 3702 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F3013-20I/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SDIP<br/>In stock: 19678 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F3014-20E/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 44QFN<br/>In stock: 20215 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F3013-30I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 44QFN<br/>In stock: 21196 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F3013-30I/SP</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SDIP<br/>In stock: 21712 pcs<br/><b>RFQ</b></div>  |
|  <div><b>DSPIC30F3013T-30I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 44QFN<br/>In stock: 22367 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F3013-20I/ML</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 44QFN<br/>In stock: 17862 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F3013-30I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SOIC<br/>In stock: 21515 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F3013T-30I/SO</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 24KB FLASH 28SOIC<br/>In stock: 28428 pcs<br/><b>RFQ</b></div> |