



Micrel / Microchip Technology



Image may be representation. See specifications for product details.

DSPIC30F6012-20I/PF

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | DSPIC30F6012-20I/PF                                                                                          |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                |
| Product description | IC MCU 16BIT 144KB FLASH 64TQFP                                                                              |
|                     |  1.DSPIC30F6012-20I/PF.pdf  |
|                     |  2.DSPIC30F6012-20I/PF.pdf  |
|                     |  3.DSPIC30F6012-20I/PF.pdf  |
|                     |  4.DSPIC30F6012-20I/PF.pdf  |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 6821 pcs stock                                                                                               |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

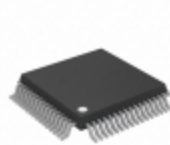
Specifications of DSPIC30F6012-20I/PF

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | DSPIC30F6012-20I/PF                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DESCRIPTION                      | IC MCU 16BIT 144KB FLASH 64TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| QUANTITY AVAILABLE               | 6821 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DATA SHEET                       |  1.DSPIC30F6012-20I/PF.pdf<br> 2.DSPIC30F6012-20I/PF.pdf<br> 3.DSPIC30F6012-20I/PF.pdf<br> 4.DSPIC30F6012-20I/PF.pdf |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2.5 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SUPPLIER DEVICE PACKAGE          | 64-TQFP (14x14)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SPEED                            | 20 MIPS                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SERIES                           | dsPIC™ 30F                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RAM SIZE                         | 8K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PROGRAM MEMORY SIZE              | 144KB (48K x 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PERIPHERALS                      | AC'97, Brown-out Detect/Reset, I²S, LVD, POR, PWM, WDT                                                                                                                                                                                                                                                                                                                                                                                                           |
| PACKAGING                        | Tray                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PACKAGE / CASE                   | 64-TQFP                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| OTHER NAMES                      | DSPIC30F601220IPF                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 85°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NUMBER OF I/O                    | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EEPROM SIZE                      | 4K x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DETAILED DESCRIPTION             | dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 20 MIPS 144KB (48K x 24) FLASH 64-TQFP (14x14)                                                                                                                                                                                                                                                                                                                                                                        |
| DATA CONVERTERS                  | A/D 16x12b                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CORE SIZE                        | 16-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CORE PROCESSOR                   | dsPIC                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CONNECTIVITY                     | CANbus, I²C, SPI, UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BASE PART NUMBER                 | DSPIC30F6012                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Related Tags

|                                                   |                                          |                                                            |
|---------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| Micrel / Microchip Technology DSPIC30F6012-20I/PF | DSPIC30F6012-20I/PF Distributor          | DSPIC30F6012-20I/PF Supplier                               |
| DSPIC30F6012-20I/PF Price                         | DSPIC30F6012-20I/PF Pictures             | DSPIC30F6012-20I/PF Image                                  |
| DSPIC30F6012-20I/PF PDF Datasheet                 | DSPIC30F6012-20I/PF Download Datasheet   | DSPIC30F6012-20I/PF Datasheet                              |
| DSPIC30F6012-20I/PF Stock                         | Buy DSPIC30F6012-20I/PF                  | Buy Micrel / Microchip Technology DSPIC30F6012-20I/PF      |
| Micrel / Microchip Technology DSPIC30F6012-20I/PF | Micrel / Microchip Technology Supplier   | Micrel / Microchip Technology Distributor                  |
| Micrel / Microchip Technology DSPIC30F6012-20I/PF | Microchip Technology DSPIC30F6012-20I/PF | Roving Networks / Microchip Technology DSPIC30F6012-20I/PF |

Related Products

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|  <div><b>DSPIC30F6012A-30I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 8870 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F6011AT-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 132KB FLASH 64TQFP<br/>In stock: 10130 pcs<br/><b>RFQ</b></div> |
|  <div><b>DSPIC30F6011T-20I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 132KB FLASH 64TQFP<br/>In stock: 5844 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F6011T-20E/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 132KB FLASH 64TQFP<br/>In stock: 5520 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F6012A-30I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 10696 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F6012A-20E/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 9645 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F6011AT-30I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 132KB FLASH 64TQFP<br/>In stock: 5833 pcs<br/><b>RFQ</b></div> |  <div><b>DSPIC30F6011T-30I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 132KB FLASH 64TQFP<br/>In stock: 4884 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F6012A-20I/PT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 2906 pcs<br/><b>RFQ</b></div>  |  <div><b>DSPIC30F6012A-20E/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 7145 pcs<br/><b>RFQ</b></div>   |
|  <div><b>DSPIC30F6012-30I/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 6231 pcs<br/><b>RFQ</b></div>   |  <div><b>DSPIC30F6012-20E/PF</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 16BIT 144KB FLASH 64TQFP<br/>In stock: 6841 pcs<br/><b>RFQ</b></div>    |