

DSPIC30F4012T-20I/ML



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Part Number: [DSPIC30F4012T-20I/ML](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 16BIT 48KB FLASH 44QFN

Data sheet:  [DSPIC30F4011, 4012 Silicon Errata](#)
 [dsPIC30F4011,4012 Errata & Data Sheet Clarificatio](#)
 [dsPIC30F Ref Manual Errata](#)
 [16-bit Embedded Control Solutions](#)
 [DSPIC30F Section35 SPI](#)
 [DSPIC30F Flash Prog. Spec.](#)
 [DSPIC30F4011, 4012 Data Sheet](#)

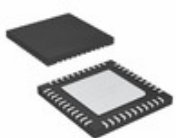
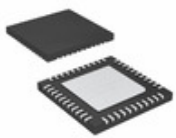
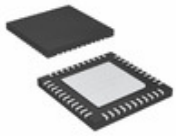
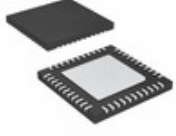
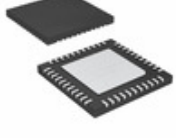
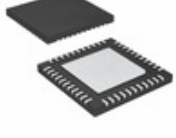
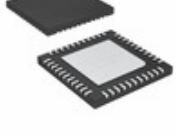
RoHs Status: Contains lead / RoHS non-compliant

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PRODUCT PARAMETER			
Part Number	DSPIC30F4012T-20I/ML	Manufacturer	Micrel / Microchip Technology
Description	IC MCU 16BIT 48KB FLASH 44QFN	Lead Free Status / RoHS Status	Contains lead / RoHS non-compliant
Quantity Available	4155 pcs	Data sheet	DSPIC30F4011, 4012 Silicon Errata dsPIC30F4011,4012 Errata & Data Sheet dsPIC30F Ref Manual Errata 16-bit Embedded Control Solutions DSPIC30F Section35 SPI DSPIC30F Flash Prog. Spec. DSPIC30F4011, 4012 Data Sheet
Category	Integrated Circuits (ICs)	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	48KB (16K x 24)
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Packaging	Tape & Reel (TR)
Package / Case	44-VQFN Exposed Pad	Other Names	DSPIC30F4012T20IM
Oscillator Type	Internal	Operating Temperature	-40°C ~ 85°C (TA)
Number of I/O	20	Moisture Sensitivity Level (MSL)	1 (Unlimited)
Lead Free Status / RoHS Status	Contains lead / RoHS non-compliant	EEPROM Size	1K x 8
Detailed Description	dsPIC dsPIC™ 30F Microcontroller IC 16-Bit 20 MIPS 48KB (16K x 24) FLASH 44-QFN (8x8)	Data Converters	A/D 6x10b
Core Size	16-Bit	Core Processor	dsPIC
Connectivity	CANbus, I²C, SPI, UART/USART	Base Part Number	DSPIC30F4012
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	Part#: DSPIC30F4012T-30I/ML Description: IC MCU 16BIT 48KB FLASH 44QFN	Manufacturers: Micrel / Microchip Technology	RFQ
	Part#: DSPIC30F4012-30I/SO Description: IC MCU 16BIT 48KB FLASH 28SOIC	Manufacturers: Micrel / Microchip Technology	RFQ
	Part#: DSPIC30F4013-30I/ML Description: IC MCU 16BIT 48KB FLASH 44QFN	Manufacturers: Micrel / Microchip Technology	RFQ
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	Part#: DSPIC30F4012T-20I/SO Description: IC MCU 16BIT 48KB FLASH 28SOIC	Manufacturers: Micrel / Microchip Technology	RFQ

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