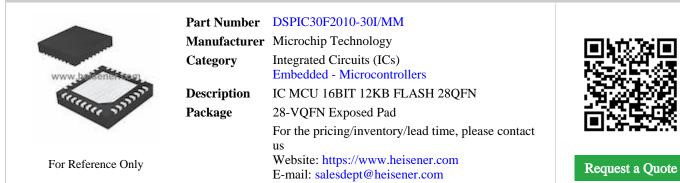


# DSPIC30F2010-30I/MM

### DSPIC30F2010-30I/MM Information



## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



## DSPIC30F2010-30I/MM Specifications

ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage28-VQFN Exposed PadSeriesdsPIC? 30FCore ProcessordsPICCore Srice16-BitSpeed30 MIPsConnectivityIC, SPI, UART/USARTNumber of I/O20Program Memory SizeISK 4K x 24)Program Memory TypeFLASHEEPROM Size152 x 8Voltage - Supply (Vcc/Vdd)2.5 v - 5.5 vData ConvertersA/D 6x10bOperating Temperature4.0°C ~ 85°C (TA)Mounting Type5.4 v - S0°C (TA)Package / Case8.4 v - S0°C (TA)Supplier Device Package8.4 v - S0°C (TA)Supplier Device Pac			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage28-VQFN Exposed PadSeriesdsPIC? 30FCore ProcessordsPICCore Size16-BitSpeed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size152 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Manufacturer Part Number	DSPIC30F2010-30I/MM	
Indedded - MicrocontrollersPackage28-VQFN Exposed PadSeriesdsPIC? 30FCore ProcessordsPICCore Size16-BitSpeed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size152 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type28-VEFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Manufacturer	Microchip Technology	
Package28-VQFN Exposed PadSeriesdsPIC? 30FCore ProcessordsPICCore Size16-BitSpeed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)PROM SizeS12 x 8Voltage - Supply (Vcc/Vdd)5.2 V > 5. VData ConvertersAD 610bOperating Temperature-40°C ~ 85°C (TA)Mounting Type5.4 SVGPN Exposed PadProkage / Case38-VQFN Exposed PadSupplier Device Package82-QFN-S(6c6)	Category	Integrated Circuits (ICs)	
SeriesdsPIC? 30FCore ProcessordsPICCore Size16-BitSpeed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOperating Temperature-Pokage / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)		Embedded - Microcontrollers	
Core ProcessordsPICCore Size16-BitSpeed30 MIPsConnectivity12C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)-Package / Case28-QFN-S (6x6)	Package	28-VQFN Exposed Pad	
Core Size16-BitSpeed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersAD 6x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case82 VQFN Exposed PadSupplier Device Package82 eQFN-S (6x6)	Series	dsPIC? 30F	
Speed30 MIPsConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Core Processor	dsPIC	
ConnectivityI2C, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOperating Temperature-0°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Core Size	16-Bit	
PeripheralsBrown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDTNumber of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Speed	30 MIPs	
Number of I/O20Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Connectivity	I2C, SPI, UART/USART	
Program Memory Size12KB (4K x 24)Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Number of I/O	20	
EEPROM Size1K x 8RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Program Memory Size	12KB (4K x 24)	
RAM Size512 x 8Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)2.5 V ~ 5.5 VData ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	EEPROM Size	1K x 8	
Data ConvertersA/D 6x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	RAM Size	512 x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Voltage - Supply (Vcc/Vdd)	2.5 V ~ 5.5 V	
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Data Converters	A/D 6x10b	
Mounting Type-Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Oscillator Type	Internal	
Package / Case28-VQFN Exposed PadSupplier Device Package28-QFN-S (6x6)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package28-QFN-S (6x6)	Mounting Type	-	
	Package / Case	28-VQFN Exposed Pad	
Report errors'	Supplier Device Package	28-QFN-S (6x6)	
			Report errors?

### DSPIC30F2010-30I/MM Guarantees



**Quality Guarantees** 

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### DSPIC30F2010-30I/MM Payment Methods





If you have any question about DSPIC30F2010-30I/MM, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com