

Image may be representation.
See specifications for product details.



PIC16F690T-I/ML

Manufacturer Part Number **PIC16F690T-I/ML**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-PIC16F690T-I/ML**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 8BIT 7KB FLASH 20QFN**

Package **20-VFQFN Exposed Pad**

Data sheet **[Tips N Tricks Guide.pdf](#)**

[PIC12F6xx,PIC16F6xx Programming Spec.pdf](#)

[PIC16F631, 68x, 690 Datasheet.pdf](#)

RoHs Status **ROHS3 Compliant**

Get a Quote

PIC16F690T-I/ML - Microchip Technology.New Original in Stock. Download Linear Technology PIC16F690T-I/ML datasheet/specifications on AllelcoElec.com.
Request a quote for PIC16F690T-I/ML, please send us email: info@allelco.com

Specifications

PIC16F690T-I/ML Tech Specifications

PIC16F690T-I/ML - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	20-QFN (4x4)	Number of I/O	18
Speed	20MHz	Mounting Type	Surface Mount
Series	PIC® 16F	EEPROM Size	256 x 8
RAM Size	256 x 8	Data Converters	A/D 12x10b
Program Memory Type	FLASH	Core Size	8-Bit
Program Memory Size	7KB (4K x 14)	Core Processor	PIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	20-VFQFN Exposed Pad	Base Product Number	PIC16F690
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology PIC16F690T-I/ML

Product Attribute				
Part Number	PIC16F690T-I/ML	PIC16F716-E/SO	PIC16F690T-E/SS	PIC16F690-I/SO
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Number of I/O	18	13	18	18
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Program Memory Size	7KB (4K x 14)	3.5KB (2K x 14)	7KB (4K x 14)	7KB (4K x 14)
Speed	20MHz	20MHz	20MHz	20MHz
Connectivity	I²C, SPI, UART/USART	-	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Package / Case	20-VFQFN Exposed Pad	18-SOIC (0.295", 7.50mm Width)	20-SSOP (0.209", 5.30mm Width)	20-SOIC (0.295", 7.50mm Width)
Package	Tape & Reel (TR)	Tube	Tape & Reel (TR)	Tube
Program Memory Type	FLASH	FLASH	FLASH	FLASH
RAM Size	256 x 8	128 x 8	256 x 8	256 x 8
Base Product Number	PIC16F690	PIC16F716	PIC16F690	PIC16F690
Series	PIC® 16F	PIC® 16F	PIC® 16F	PIC® 16F
Supplier Device Package	20-QFN (4x4)	18-SOIC	20-SSOP	20-SOIC
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
EEPROM Size	256 x 8	-	256 x 8	256 x 8
Oscillator Type	Internal	External	Internal	Internal
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V	3V ~ 5.5V	2V ~ 5.5V	2V ~ 5.5V
Data Converters	A/D 12x10b	A/D 4x8b	A/D 12x10b	A/D 12x10b
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Core Processor	PIC	PIC	PIC	PIC

PIC16F690T-I/ML Datasheet PDF

Download PIC16F690T-I/ML pdf datasheets and Microchip Technology documentation for PIC16F690T-I/ML - Microchip Technology.

Datasheets

[PIC16F631, 68x, 690 Datasheet.pdf](#)

PCN Packaging

Packing Changes 10/Oct/2016.pdf

Reel Design Update 07/May/2015.pdf

HTML Datasheet

Tips N Tricks Guide.pdf

PIC12F6xx,PIC16F6xx Programming Spec.pdf

PCN Design/Specification

CuPdAu wire 25/Nov/2016.pdf

PCN Assembly/Origin

2.73KHz.pdf

Customers Also Interested in

Recommended Products



PIC16F690I/SS

Micrel / Microchip Technology



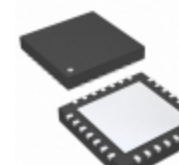
PIC16F716-E/SO

Microchip Technology
IC MCU 8BIT 3.5KB FLASH 18SOIC



PIC16F690T-E/SS

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SSOP



PIC16F690-I/SO

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SOIC



PIC16F716-E/ML

Microchip Technology
IC MCU 8BIT 3.5KB FLASH 28QFN

PIC16F690-I/SS

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SSOP



PIC16F690-I/P

Microchip Technology
IC MCU 8BIT 7KB FLASH 20DIP



PIC16F716

Micrel / Microchip Technology



PIC16F716-I/SO

Microchip Technology
IC MCU 8BIT 3.5KB FLASH 18SOIC



PIC16F690-I/SSG

Micrel / Microchip Technology



PIC16F716-I/P4AP

Micrel / Microchip Technology



PIC16F716-E/SS

Microchip Technology
IC MCU 8BIT 3.5KB FLASH 20SSOP



PIC16F707-I/PT

Microchip Technology
IC MCU 8BIT 14KB FLASH 44TQFP



PIC16F690T-I/SO

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SOIC



PIC16F690-E/SS

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SSOP



PIC16F690T-I/SS

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SSOP



PIC16F716-I/P

Microchip Technology
IC MCU 8BIT 3.5KB FLASH 18DIP



PIC16F689T-I/SS

Microchip Technology
IC MCU 8BIT 7KB FLASH 20SSOP

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Efficient Supply Management



Cost-Saving Procurement



Fast Sourcing & Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

Certifications & Memberships



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