



Image may be representation.  
See specifications for product details.



## PIC16F689-I/SO

Manufacturer Part Number	<b>PIC16F689-I/SO</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-PIC16F689-I/SO
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC MCU 8BIT 7KB FLASH 20SOIC
Package	20-SOIC (0.295", 7.50mm Width)
Data sheet	<a href="#">Tips N Tricks Guide.pdf</a> <a href="#">PIC12F6xx,PIC16F6xx Programming Spec.pdf</a> <a href="#">PIC16F631, 68x, 690 Datasheet.pdf</a> <a href="#">PIC16F6xx Product Brief.pdf</a>
RoHs Status	ROHS3 Compliant

**Get a Quote**

PIC16F689-I/SO - Microchip Technology.New Original in Stock. Download Linear Technology PIC16F689-I/SO datasheet/specifications on AllelcoElec.com.  
Request a quote for PIC16F689-I/SO, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

PIC16F689-I/SO Tech Specifications

PIC16F689-I/SO - 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-SOIC	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, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	20-SOIC (0.295", 7.50mm Width)	Base Product Number	PIC16F689
Package	Tube		

## Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology PIC16F689-I/SO

Product Attribute				
Part Number	PIC16F689-I/SO	PIC16F688-I/SL	PIC16F689-E/SS	PIC16F689T-I/SS
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V	2V ~ 5.5V	2V ~ 5.5V	2V ~ 5.5V
RAM Size	256 x 8	256 x 8	256 x 8	256 x 8
Program Memory Size	7KB (4K x 14)	7KB (4K x 14)	7KB (4K x 14)	7KB (4K x 14)
Data Converters	A/D 12x10b	A/D 8x10b	A/D 12x10b	A/D 12x10b
Peripherals	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT	Brown-out Detect/Reset, POR, WDT
Series	PIC® 16F	PIC® 16F	PIC® 16F	PIC® 16F
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tube	Tube	Tube	Tape & Reel (TR)
Oscillator Type	Internal	Internal	Internal	Internal
EEPROM Size	256 x 8	256 x 8	256 x 8	256 x 8
Core Processor	PIC	PIC	PIC	PIC
Supplier Device Package	20-SOIC	14-SOIC	20-SSOP	20-SSOP
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 85°C (TA)
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Speed	20MHz	20MHz	20MHz	20MHz
Number of I/O	18	12	18	18
Core Size	8-Bit	8-Bit	8-Bit	8-Bit
Connectivity	I²C, SPI, UART/USART	UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Package / Case	20-SOIC (0.295", 7.50mm Width)	14-SOIC (0.154", 3.90mm Width)	20-SSOP (0.209", 5.30mm Width)	20-SSOP (0.209", 5.30mm Width)
Base Product Number	PIC16F689	PIC16F688	PIC16F689	PIC16F689

## PIC16F689-I/SO Datasheet PDF

Download PIC16F689-I/SO pdf datasheets and Microchip Technology documentation for PIC16F689-I/SO - Microchip Technology.

### Datasheets





PIC16F631, 68x, 690 Datasheet.pdf




PIC16F6xx Product Brief.pdf

## PCN Packaging

 Label and Packing Changes 23/Sep/2015.pdf

 Packing Changes 10/Oct/2016.pdf


















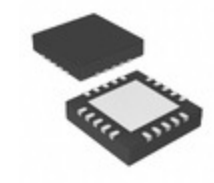
## HTML Datasheet

 Tips N Tricks Guide.pdf

 PIC12F6xx,PIC16F6xx Programming Spec.pdf

## Customers Also Interested in

### Recommended Products

					
<b>PIC16F688-I/SL</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14SOIC	<b>PIC16F690-I/SSG</b> Micrel / Microchip Technology	<b>PIC16F689-E/SS</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SSOP	<b>PIC16F689T-I/SS</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SSOP	<b>PIC16F688-I/ML</b> Microchip Technology IC MCU 8BIT 7KB FLASH 16QFN	<b>PIC16F688-I/P</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14DIP
					
<b>PIC16F690-E/SS</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SSOP	<b>PIC16F689-I/P</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20DIP	<b>PIC16F690-I/SS</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SSOP	<b>PIC16F688T-I/SL</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14SOIC	<b>PIC16F688-I/ST</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14TSSOP	<b>PIC16F690-I/P</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20DIP
					
<b>PIC16F688T-E/SL</b> Microchip Technology IC MCU 8BIT 7KB FLASH 14SOIC	<b>PIC16F689-I/SS</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SSOP	<b>PIC16F688T-I</b>	<b>PIC16F690-I/SSVAO</b> Micrel / Microchip Technology	<b>PIC16F690-I/SO</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20SOIC	<b>PIC16F689T-I/ML</b> Microchip Technology IC MCU 8BIT 7KB FLASH 20QFN

## 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
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Contact us if you have any questions.

 Phone +00852 9146 4856	 Email info@allelco.com
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### Certifications & Memberships



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### Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong  
Phone: +00852 9146 4856  
Fax: +00852 3010 8510  
Email: info@Allelco.com

