

Image may be representation.  
See specifications for product details.



## MCP616-I/SN

Manufacturer Part Number	<b>MCP616-I/SN</b>
Manufacturer	<b>Microchip Technology</b>
Allelco Part Number	32D-MCP616-I/SN
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	IC OPAMP GP 1 CIRCUIT 8SOIC
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	<b>Analog and Interface Product Guide.pdf</b> <b>MCP616 - 619.pdf</b>
RoHs Status	ROHS3 Compliant

**Get a Quote**

MCP616-I/SN - Microchip Technology. New Original in Stock. Download Linear Technology MCP616-I/SN datasheet/specifications on AllelcoElec.com.  
Request a quote for MCP616-I/SN, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MCP616-I/SN Tech Specifications

MCP616-I/SN - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Operating Temperature	-40°C ~ 85°C
Voltage - Supply Span (Min)	2.3 V	Number of Circuits	1
Voltage - Supply Span (Max)	5.5 V	Mounting Type	Surface Mount
Voltage - Input Offset	150 µV	Gain Bandwidth Product	190 kHz
Supplier Device Package	8-SOIC	Current - Supply	19µA
Slew Rate	0.08V/µs	Current - Output / Channel	17 mA
Series	-	Current - Input Bias	15 nA
Package / Case	8-SOIC (0.154", 3.90mm Width)	Base Product Number	MCP616
Package	Tube	Amplifier Type	General Purpose
Output Type	Rail-to-Rail		

### Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology MCP616-I/SN

Product Attribute				
Part Number	MCP616-I/SN	MCP6142T-E/MS	MCP617T-I/SN	MCP6142-I/MS
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Voltage - Supply Span (Max)	5.5 V	6 V	5.5 V	6 V
Current - Supply	19µA	600nA (x2 Channels)	19µA (x2 Channels)	600nA (x2 Channels)
Supplier Device Package	8-SOIC	8-MSOP	8-SOIC	8-MSOP
Voltage - Supply Span (Min)	2.3 V	1.4 V	2.3 V	1.4 V
Package / Case	8-SOIC (0.154", 3.90mm Width)	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)	8-SOIC (0.154", 3.90mm Width)	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)
Series	-	-	-	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Amplifier Type	General Purpose	General Purpose	CMOS	General Purpose
Gain Bandwidth Product	190 kHz	100 kHz	190 kHz	100 kHz
Number of Circuits	1	2	2	2
Base Product Number	MCP616	MCP6142	MCP617	MCP6142
Slew Rate	0.08V/µs	0.024V/µs	0.08V/µs	0.024V/µs
Current - Input Bias	15 nA	1 pA	5 nA	1 pA
Output Type	Rail-to-Rail	Rail-to-Rail	Rail-to-Rail	Rail-to-Rail
Package	Tube	Tape & Reel (TR)	Tape & Reel (TR)	Tube
Voltage - Input Offset	150 µV	3 mV	150 µV	3 mV
Operating Temperature	-40°C ~ 85°C	-40°C ~ 125°C (TA)	-40°C ~ 85°C	-40°C ~ 85°C (TA)
Current - Output / Channel	17 mA	20 mA	17 mA	20 mA

### MCP616-I/SN Datasheet PDF

Download MCP616-I/SN pdf datasheets and Microchip Technology documentation for MCP616-I/SN - Microchip Technology.

#### Datasheets

[Analog and Interface Product Guide.pdf](#)

[MCP616 - 619.pdf](#)

#### PCN Packaging

[Label and Packing Changes 23/Sep/2015.pdf](#)

[Packing Changes 10/Oct/2016.pdf](#)


#### Environmental Information

[Microchip CA Prop65.pdf](#)


[Microchip REACH.pdf](#)

[Microchip RoHS.pdf](#)


## Other Related Documents

 Development Tools Catalog.pdf

## PCN Design/Specification

 MCP616/7/8/9 07/Nov/2019.pdf

## PCN Assembly/Origin

 Manufacturing Change 16/Feb/2022.pdf

## Customers Also Interested in

### Recommended Products



#### MCP6142T-E/MS

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8MSOP



#### MCP617T-I/SN

Microchip Technology  
IC CMOS 2 CIRCUIT 8SOIC



#### MCP6142-I/MS

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8MSOP



#### MCP617-I/P

Microchip Technology  
IC CMOS 2 CIRCUIT 8DIP



#### MCP619-I/SL

Microchip Technology  
IC CMOS 4 CIRCUIT 14SOIC



#### MCP619T-I/ST

Microchip Technology  
IC CMOS 4 CIRCUIT 14TSSOP



#### MCP619T-I/SL

Microchip Technology  
IC CMOS 4 CIRCUIT 14SOIC



#### MCP616T-I/SN

Microchip Technology  
IC OPAMP GP 1 CIRCUIT 8SOIC



#### MCP6142-I/SN

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8SOIC



#### MCP619-I/ST

Microchip Technology  
IC CMOS 4 CIRCUIT 14TSSOP



#### MCP617-I/MS

Microchip Technology  
IC CMOS 2 CIRCUIT 8MSOP



#### MCP6142T-I/SN

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8SOIC



#### MCP6142T-E/SN

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8SOIC



#### MCP6142T-I/MS

Microchip Technology  
IC OPAMP GP 2 CIRCUIT 8MSOP



#### MCP6144-I/SL

Microchip Technology  
IC OPAMP GP 4 CIRCUIT 14SOIC



#### MCP617T-I/MS

Microchip Technology  
IC CMOS 2 CIRCUIT 8MSOP



#### MCP6144-I/ST

Microchip Technology  
IC OPAMP GP 4 CIRCUIT 14TSSOP



#### MCP617-I/SN

Microchip Technology  
IC CMOS 2 CIRCUIT 8SOIC

## 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.



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## Certifications & Memberships



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