



Image may be representation.  
See specifications for product details.



## OP413ES

|                          |                                |
|--------------------------|--------------------------------|
| Manufacturer Part Number | <b>OP413ES</b>                 |
| Manufacturer             | <b>Analog Devices, Inc.</b>    |
| Allelco Part Number      | 32D-OP413ES                    |
| ECAD Model               | Request Free CAD Models        |
| Parts Description        | IC OPAMP GP 3.4MHZ QUAD 16SOIC |
| Package                  | 16-SOIC (0.295", 7.50mm Width) |
| Data sheet               | <b>OP113,213,413.pdf</b>       |

**Get a Quote**

OP413ES - Analog Devices Inc..New Original in Stock. Download Linear Technology OP413ES datasheet/specifications on AllelcoElec.com.  
Request a quote for OP413ES, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

OP413ES Tech Specifications  
OP413ES - Analog Devices Inc. technical specifications, attributes, parameters

| Product Attribute           | Attribute Value                | Product Attribute          | Attribute Value |
|-----------------------------|--------------------------------|----------------------------|-----------------|
| Manufacturer                | Analog Devices, Inc.           | Operating Temperature      | -40°C ~ 85°C    |
| Voltage - Supply Span (Min) | 4 V                            | Number of Circuits         | 4               |
| Voltage - Supply Span (Max) | 36 V                           | Mounting Type              | Surface Mount   |
| Voltage - Input Offset      | 125 µV                         | Gain Bandwidth Product     | 3.4 MHz         |
| Supplier Device Package     | 16-SOIC                        | Current - Supply           | -               |
| Slew Rate                   | 1.2V/µs                        | Current - Output / Channel | 40 mA           |
| Series                      | -                              | Current - Input Bias       | 240 nA          |
| Package / Case              | 16-SOIC (0.295", 7.50mm Width) | Base Product Number        | OP413           |
| 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 Analog Devices Inc. OP413ES

| Product Attribute           |                                |                         |                                |                                |
|-----------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------|
| Part Number                 | OP413ES                        | OP400HPZ                | OP400HS                        | OP4177AR                       |
| Manufacturer                | Analog Devices Inc.            | Analog Devices Inc.     | Analog Devices Inc.            | Analog Devices Inc.            |
| Voltage - Supply Span (Max) | 36 V                           | 36 V                    | 36 V                           | 30 V                           |
| Current - Supply            | -                              | 600µA (x4 Channels)     | 600µA (x4 Channels)            | 400µA (x4 Channels)            |
| Supplier Device Package     | 16-SOIC                        | 14-PDIP                 | 16-SOIC                        | 14-SOIC                        |
| Amplifier Type              | General Purpose                | General Purpose         | General Purpose                | General Purpose                |
| Gain Bandwidth Product      | 3.4 MHz                        | 500 kHz                 | 500 kHz                        | 1.3 MHz                        |
| Voltage - Input Offset      | 125 µV                         | 80 µV                   | 80 µV                          | 15 µV                          |
| Base Product Number         | OP413                          | OP400                   | OP400                          | OP4177                         |
| Package / Case              | 16-SOIC (0.295", 7.50mm Width) | 14-DIP (0.300", 7.62mm) | 16-SOIC (0.295", 7.50mm Width) | 14-SOIC (0.154", 3.90mm Width) |
| Output Type                 | Rail-to-Rail                   | Differential            | Differential                   | -                              |
| Voltage - Supply Span (Min) | 4 V                            | 6 V                     | 6 V                            | 5 V                            |
| Package                     | Tube                           | Tube                    | Tube                           | Tube                           |
| Series                      | -                              | -                       | -                              | -                              |
| Operating Temperature       | -40°C ~ 85°C                   | -40°C ~ 85°C            | -40°C ~ 85°C                   | -40°C ~ 125°C                  |
| Current - Output / Channel  | 40 mA                          | -                       | -                              | 10 mA                          |
| Number of Circuits          | 4                              | 4                       | 4                              | 4                              |
| Slew Rate                   | 1.2V/µs                        | 0.15V/µs                | 0.15V/µs                       | 0.7V/µs                        |
| Current - Input Bias        | 240 nA                         | 750 pA                  | 750 pA                         | 500 pA                         |
| Mounting Type               | Surface Mount                  | Through Hole            | Surface Mount                  | Surface Mount                  |

## OP413ES Datasheet PDF

Download OP413ES pdf datasheets and Analog Devices Inc. documentation for OP413ES - Analog Devices Inc..

### Datasheets

[OP113,213,413.pdf](#)

### PCN Obsolescence/ EOL

[Multiple Device Family 05/Oct/2010.pdf](#)

## Customers Also Interested in

### Recommended Products



### OP400HPZ

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 14DIP



### OP400HS

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP4177AR

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 14SOIC



### OP413FSZ

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP413GSZ

ADI (Analog Devices, Inc.)



### OP413EP

ADI (Analog Devices, Inc.)



### OP413EY

PMI



### OP413FS

Analog Devices Inc.  
IC OPAMP GP 3.4MHZ QUAD 16SOIC



### OP400HSZ

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP413ESZ

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP400GSZ-REEL7

ADI (Analog Devices, Inc.)



### OP413FSZ-REEL

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP400Q

ADI (Analog Devices, Inc.)



### OP413FP

ADM



### OP400HSZ-REEL7

ADI (Analog Devices, Inc.)



### OP400HP

Analog Devices Inc.  
IC OPAMP GP 500KHZ QUAD LP 14DIP



### OP400HSZ-REEL

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC



### OP400GSZ-REEL

Analog Devices Inc.  
IC OPAMP GP 4 CIRCUIT 16SOIC

## 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

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Email

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## Certifications & Memberships



View More

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