



Image may be representation.
See specifications for product details.



STP30NF20

| | |
|--------------------------|--|
| Manufacturer Part Number | STP30NF20 |
| Manufacturer | STMicroelectronics |
| Allelco Part Number | 32D-STP30NF20 |
| ECAD Model | PCB Symbol, Footprint & 3D Model |
| Parts Description | MOSFET N-CH 200V 30A TO220AB |
| Package | TO-220-3 |
| Data sheet | STP30NF20, STB30NF20, STW30NF20.pdf |
| RoHs Status | ROHS3 Compliant |

Get a Quote

STP30NF20 - STMicroelectronics.New Original in Stock. Download Linear Technology STP30NF20 datasheet/specifications on AllelcoElec.com.
Request a quote for STP30NF20, please send us email: info@allelco.com

Specifications

STP30NF20 Tech Specifications
STP30NF20 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|-------------------------|----------------------|--|--------------------|
| Manufacturer | STMicroelectronics | Operating Temperature | -55°C ~ 150°C (TJ) |
| Vgs(th) (Max) @ Id | 4V @ 250µA | Mounting Type | Through Hole |
| Vgs (Max) | ±20V | Input Capacitance (Ciss) (Max) @ Vds | 1597 pF @ 25 V |
| Technology | MOSFET (Metal Oxide) | Gate Charge (Qg) (Max) @ Vgs | 38 nC @ 10 V |
| Supplier Device Package | TO-220 | FET Type | N-Channel |
| Series | STripFET™ | FET Feature | - |
| Rds On (Max) @ Id, Vgs | 75mOhm @ 15A, 10V | Drive Voltage (Max Rds On, Min Rds On) | 10V |
| Power Dissipation (Max) | 125W (Tc) | Drain to Source Voltage (Vdss) | 200 V |
| Package / Case | TO-220-3 | Current - Continuous Drain (Id) @ 25°C | 30A (Tc) |
| Package | Tube | Base Product Number | STP30 |

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP30NF20

| Product Attribute | | | | |
|--|----------------------|--|----------------------|----------------------|
| Part Number | STP30NF20 | STP315N10F7 | STP30N65M5 | STP32N65M5 |
| Manufacturer | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| Operating Temperature | -55°C ~ 150°C (TJ) | -55°C ~ 175°C (TJ) | 150°C (TJ) | 150°C (TJ) |
| Drain to Source Voltage (Vdss) | 200 V | 100 V | 650 V | 650 V |
| Current - Continuous Drain (Id) @ 25°C | 30A (Tc) | 180A (Tc) | 22A (Tc) | 24A (Tc) |
| Rds On (Max) @ Id, Vgs | 75mOhm @ 15A, 10V | 2.7mOhm @ 60A, 10V | 139mOhm @ 11A, 10V | 119mOhm @ 12A, 10V |
| Package | Tube | Tube | Tube | Tube |
| FET Type | N-Channel | N-Channel | N-Channel | N-Channel |
| Technology | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) |
| Vgs (Max) | ±20V | ±20V | ±25V | ±25V |
| Series | STripFET™ | Automotive, AEC-Q101, DeepGATE™, STripFET™ VII | MDmesh™ V | MDmesh™ V |
| Input Capacitance (Ciss) (Max) @ Vds | 1597 pF @ 25 V | 12800 pF @ 25 V | 2880 pF @ 100 V | 3320 pF @ 100 V |
| Base Product Number | STP30 | STP315 | STP30 | STP32N |
| Mounting Type | Through Hole | Through Hole | Through Hole | Through Hole |
| Package / Case | TO-220-3 | TO-220-3 | TO-220-3 | TO-220-3 |
| Vgs(th) (Max) @ Id | 4V @ 250µA | 4.5V @ 250µA | 5V @ 250µA | 5V @ 250µA |
| Power Dissipation (Max) | 125W (Tc) | 315W (Tc) | 140W (Tc) | 150W (Tc) |
| FET Feature | - | - | - | - |
| Gate Charge (Qg) (Max) @ Vgs | 38 nC @ 10 V | 180 nC @ 10 V | 64 nC @ 10 V | 72 nC @ 10 V |
| Drive Voltage (Max Rds On, Min Rds On) | 10V | 10V | 10V | 10V |
| Supplier Device Package | TO-220 | TO-220 | TO-220 | TO-220 |

STP30NF20 Datasheet PDF

Download STP30NF20 pdf datasheets and STMicroelectronics documentation for STP30NF20 - STMicroelectronics.

Datasheets

[STP30NF20, STB30NF20, STW30NF20.pdf](#)

PCN Design/Specification

[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Packaging

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

**STP315N10F7**STMicroelectronics
MOSFET N-CH 100V 180A TO220**STP32N06L**

STMicroelectronics

**STP30NF10 MOS**

STMicroelectronics

**STP30N65M5**STMicroelectronics
MOSFET N-CH 650V 22A TO220AB**STP32N65M5**STMicroelectronics
MOSFET N-CH 650V 24A TO220AB**STP30NM30N**STMicroelectronics
MOSFET N-CH 300V 30A TO220AB**STP30NE06**

ST-MAR

**STP30NM60N**STMicroelectronics
MOSFET N-CH 600V 25A TO220AB**STP30N06**

STMicroelectronics

**STP31N65M5**STMicroelectronics
MOSFET N-CH 650V 22A TO220**STP30NF10**STMicroelectronics
MOSFET N-CH 100V 35A TO220AB**STP32NM50N**STMicroelectronics
MOSFET N-CH 500V 22A TO-220**STP30NF10FP**

VBSEMI

**STP310N10F7**STMicroelectronics
MOSFET N-CH 100V 180A TO-220**STP30NF20 MOS**

STMicroelectronics

**STP30N10F7**STMicroelectronics
MOSFET N-CH 100V 32A TO220AB**STP30N06 MOS**

STMicroelectronics

**STP30NE06L**

STMicroelectronics

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



View More

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