

Image may be representation.
See specifications for product details.



STF7N90K5

| | |
|--------------------------|----------------------------------|
| Manufacturer Part Number | STF7N90K5 |
| Manufacturer | STMicroelectronics |
| Allelco Part Number | 32D-STF7N90K5 |
| ECAD Model | PCB Symbol, Footprint & 3D Model |
| Parts Description | MOSFET N-CH 900V 7A TO220FP |
| Package | TO-220-3 Full Pack |
| Data sheet | STF7N90K5.pdf |
| RoHs Status | ROHS3 Compliant |

Get a Quote

STF7N90K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STF7N90K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STF7N90K5, please send us email: info@allelco.com

Specifications

STF7N90K5 Tech Specifications

STF7N90K5 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|-------------------------|----------------------|--|--------------------|
| Manufacturer | STMicroelectronics | Package | Tube |
| Vgs(th) (Max) @ Id | 5V @ 100µA | Operating Temperature | -55°C ~ 150°C (TJ) |
| Vgs (Max) | ±30V | Mounting Type | Through Hole |
| Technology | MOSFET (Metal Oxide) | FET Type | N-Channel |
| Supplier Device Package | TO-220FP | FET Feature | - |
| Series | MDmesh™ K5 | Drive Voltage (Max Rds On, Min Rds On) | 10V |
| Rds On (Max) @ Id, Vgs | - | Drain to Source Voltage (Vdss) | 900 V |
| Power Dissipation (Max) | 25W | Current - Continuous Drain (Id) @ 25°C | 7A (Tc) |
| Package / Case | TO-220-3 Full Pack | Base Product Number | STF7 |

Parts with Similar Specifications

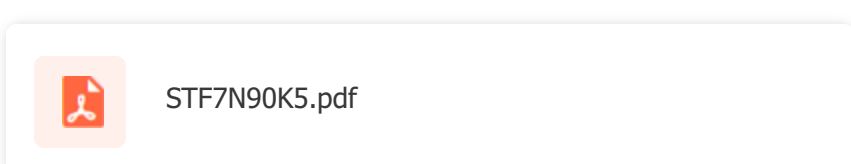
The three parts on the right have similar specifications to STMicroelectronics STF7N90K5

| Product Attribute | | | | |
|--|----------------------|----------------------|----------------------|----------------------|
| Part Number | STF7N90K5 | STF7N52DK3 | STF7N60M2 | STF7NM60N |
| Manufacturer | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| Operating Temperature | -55°C ~ 150°C (TJ) | 150°C (TJ) | -55°C ~ 150°C (TJ) | 150°C (TJ) |
| Vgs (Max) | ±30V | ±30V | ±25V | ±25V |
| Vgs(th) (Max) @ Id | 5V @ 100µA | 4.5V @ 50µA | 4V @ 250µA | 4V @ 250µA |
| FET Type | N-Channel | N-Channel | N-Channel | N-Channel |
| Series | MDmesh™ K5 | SuperFREDmesh3™ | MDmesh™ II Plus | MDmesh™ II |
| Power Dissipation (Max) | 25W | 25W (Tc) | 20W (Tc) | 20W (Tc) |
| Technology | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) |
| Current - Continuous Drain (Id) @ 25°C | 7A (Tc) | 6A (Tc) | 5A (Tc) | 5A (Tc) |
| Drive Voltage (Max Rds On, Min Rds On) | 10V | 10V | 10V | 10V |
| Drain to Source Voltage (Vdss) | 900 V | 525 V | 600 V | 600 V |
| Base Product Number | STF7 | STF7N | STF7 | STF7 |
| Supplier Device Package | TO-220FP | TO-220FP | TO-220FP | TO-220FP |
| Package / Case | TO-220-3 Full Pack | TO-220-3 Full Pack | TO-220-3 Full Pack | TO-220-5 Full Pack |
| FET Feature | - | - | - | - |
| Package | Tube | Tube | Tube | Tube |
| Rds On (Max) @ Id, Vgs | - | 1.150hm @ 3A, 10V | 950mOhm @ 2.5A, 10V | 900mOhm @ 2.5A, 10V |
| Mounting Type | Through Hole | Through Hole | Through Hole | Through Hole |

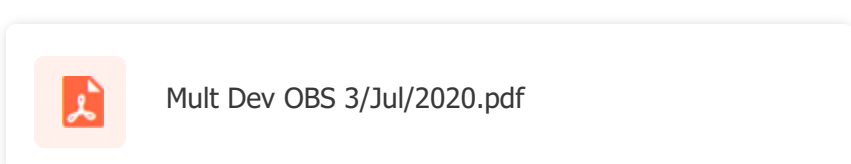
STF7N90K5 Datasheet PDF

Download STF7N90K5 pdf datasheets and STMicroelectronics documentation for STF7N90K5 - STMicroelectronics.

Datasheets



PCN Obsolescence/ EOL



Customers Also Interested in

Recommended Products



STF7NK80ZFP
STMicroelectronics

STF7N52DK3
STMicroelectronics
MOSFET N-CH 525V 6A TO220FP

STF7N60M2
STMicroelectronics
MOSFET N-CH 600V 5A TO220FP

STF7NK30Z
STMicroelectronics

STF7NM60N
STMicroelectronics
MOSFET N-CH 600V 5A TO220FP

STF7N65M2
STMicroelectronics
MOSFET N-CH 650V 5A TO220FP



STF7N52DK3 7N52DK3
STMicroelectronics

STF7NM50N
STMicroelectronics
MOSFET N-CH 500V 5A TO220FP

STF7NK30Z MOS
STMicroelectronics

STF7N65M5
STMicroelectronics

STF7N80K5
STMicroelectronics
MOSFET N-CH 800V 6A TO220FP

STF7N52K3
STMicroelectronics
MOSFET N-CH 525V 6A TO220FP



STF7NM80
STMicroelectronics
MOSFET N-CH 800V 6.5A TO220FP

STF7N52K3 MOS
STMicroelectronics

STF7NM60N MOS
STMicroelectronics

STF7N65 MOS
STMicroelectronics

STF7NM80 MOS
STMicroelectronics

STF7N80K5 MOS
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 |

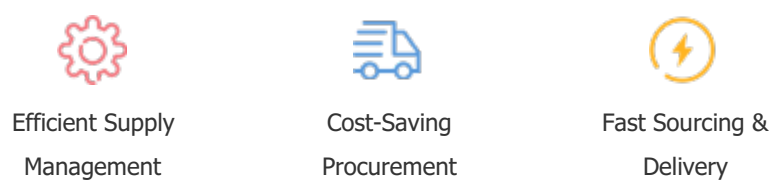
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

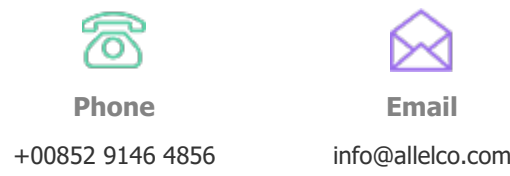
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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