

Image may be representation.  
See specifications for product details.



## STP4NK80Z

Manufacturer Part Number	<b>STP4NK80Z</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STP4NK80Z
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	<b>MOSFET N-CH 800V 3A TO220AB</b>
Package	<b>TO-220-3</b>
Data sheet	<b><a href="#">ST(D,P)4NK80Z(-1,FP).pdf</a></b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STP4NK80Z - STMicroelectronics.New Original in Stock. Download Linear Technology STP4NK80Z datasheet/specifications on AllelcoElec.com.  
Request a quote for STP4NK80Z, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STP4NK80Z Tech Specifications

STP4NK80Z - 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	4.5V @ 50µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	575 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	22.5 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	3.50hm @ 1.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	80W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	3A (Tc)
Package	Tube	Base Product Number	STP4NK80

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP4NK80Z

Product Attribute				
Part Number	STP4NK80Z	STP4NK50ZFP	STP50NE08	STP4NK50ZD
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs (Max)	±30V	±30V	±20V	±30V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Current - Continuous Drain (Id) @ 25°C	3A (Tc)	3A (Tc)	50A (Tc)	3A (Tc)
Power Dissipation (Max)	80W (Tc)	20W (Tc)	150W (Tc)	45W (Tc)
Rds On (Max) @ Id, Vgs	3.50hm @ 1.5A, 10V	2.70hm @ 1.5A, 10V	24mOhm @ 25A, 10V	2.70hm @ 1.5A, 10V
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	175°C (TJ)	-55°C ~ 150°C (TJ)
Package / Case	TO-220-3	TO-220-3 Full Pack	TO-220-3	TO-220-3
Supplier Device Package	TO-220	TO-220FP	TO-220	TO-220
FET Feature	-	-	-	-
Package	Tube	Tube	Tube	Tube
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drain to Source Voltage (Vdss)	800 V	500 V	80 V	500 V
Gate Charge (Qg) (Max) @ Vgs	22.5 nC @ 10 V	12 nC @ 10 V	110 nC @ 10 V	12 nC @ 10 V
Vgs(th) (Max) @ Id	4.5V @ 50µA	4.5V @ 50µA	4V @ 250µA	4.5V @ 50µA
Base Product Number	STP4NK80	STP4N	STP50N	STP4N
Series	SuperMESH™	SuperMESH™	-	SuperMESH™
Input Capacitance (Ciss) (Max) @ Vds	575 pF @ 25 V	310 pF @ 25 V	5100 pF @ 25 V	310 pF @ 25 V

### STP4NK80Z Datasheet PDF

Download STP4NK80Z pdf datasheets and STMicroelectronics documentation for STP4NK80Z - STMicroelectronics.

#### Datasheets

[ST\(D,P\)4NK80Z\(-1,FP\).pdf](#)



















#### PCN Design/Specification

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

#### PCN Packaging

Customers Also Interested in

Recommended Products

 <b>STP50N06</b> STMicroelectronics	 <b>STP4NK50ZFP</b> STMicroelectronics MOSFET N-CH 500V 3A TO220FP	 <b>STP4NK80ZFP MOS</b> STMicroelectronics	 <b>STP50NE08</b> STMicroelectronics MOSFET N-CH 80V 50A TO220AB	 <b>STP4NK50ZD</b> STMicroelectronics MOSFET N-CH 500V 3A TO220AB	 <b>STP4NK60Z</b> STMicroelectronics MOSFET N-CH 600V 4A TO220AB
 <b>STP50NF25</b> STMicroelectronics MOSFET N-CH 250V 45A TO220AB	 <b>STP4NK50Z</b> STMicroelectronics MOSFET N-CH 500V 3A TO220AB	 <b>STP4NM60</b> STMicroelectronics	 <b>STP4NK60Z 4N60</b> STMicroelectronics	 <b>STP4NK60ZFP</b> STMicroelectronics MOSFET N-CH 600V 4A TO220FP	 <b>STP4NK60Z MOS</b> TOOHONG
 <b>STP4NK80ZFP</b> STMicroelectronics MOSFET N-CH 800V 3A TO220FP	 <b>STP50NE10</b> STMicroelectronics MOSFET N-CH 100V 50A TO220AB	 <b>STP4NK60ZFP MOS</b> STMicroelectronics	 <b>STP4NK60ZFP</b> STMicroelectronics	 <b>STP50NE10L</b> STMicroelectronics	 <b>STP50NF03L</b> 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