



Image may be representation.
See specifications for product details.



STP11NK50Z

Manufacturer Part Number	STP11NK50Z
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP11NK50Z
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 500V 10A TO220AB
Package	TO-220-3
Data sheet	ST(B,P)11NK50Z(FP).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP11NK50Z - STMicroelectronics.New Original in Stock. Download Linear Technology STP11NK50Z datasheet/specifications on AllelcoElec.com.
Request a quote for STP11NK50Z, please send us email: info@allelco.com

Specifications

STP11NK50Z Tech Specifications

STP11NK50Z - 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 @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1390 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	68 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	520mOhm @ 4.5A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	125W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	10A (Tc)
Package	Tube	Base Product Number	STP11

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP11NK50Z

Product Attribute				
Part Number	STP11NK50Z	STP11NM60	STP11NK40Z	STP11NK40ZFP
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Drain to Source Voltage (Vdss)	500 V	650 V	400 V	400 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Gate Charge (Qg) (Max) @ Vgs	68 nC @ 10 V	30 nC @ 10 V	32 nC @ 10 V	32 nC @ 10 V
Supplier Device Package	TO-220	TO-220	TO-220	TO-220FP
Power Dissipation (Max)	125W (Tc)	160W (Tc)	110W (Tc)	30W (Tc)
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3 Full Pack
FET Feature	-	-	-	-
Input Capacitance (Ciss) (Max) @ Vds	1390 pF @ 25 V	1000 pF @ 25 V	930 pF @ 25 V	930 pF @ 25 V
Operating Temperature	-55°C ~ 150°C (TJ)	-65°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4.5V @ 100µA	5V @ 250µA	4.5V @ 100µA	4.5V @ 100µA
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Current - Continuous Drain (Id) @ 25°C	10A (Tc)	11A (Tc)	9A (Tc)	9A (Tc)
Rds On (Max) @ Id, Vgs	520mOhm @ 4.5A, 10V	450mOhm @ 5.5A, 10V	550mOhm @ 4.5A, 10V	550mOhm @ 4.5A, 10V
Series	SuperMESH™	MDmesh™	SuperMESH™	SuperMESH™
Package	Tube	Tube	Tube	Tube
Vgs (Max)	±30V	±25V	±30V	±30V
Base Product Number	STP11	STP11	STP11	STP11
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)

STP11NK50Z Datasheet PDF

Download STP11NK50Z pdf datasheets and STMicroelectronics documentation for STP11NK50Z - STMicroelectronics.

Datasheets

[ST\(B,P\)11NK50Z\(FP\).pdf](#)

PCN Design/Specification

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

PCN Assembly/Origin



Mult Dev Site Closure 13/Feb/2020.pdf

PCN Packaging



Traceability 06/Mar/2017.pdf

Customers Also Interested in

Recommended Products



STP11NM60 MOS
STMicroelectronics



STP11NM60
STMicroelectronics
MOSFET N-CH 650V 11A TO220AB



STP11NK40Z
STMicroelectronics
MOSFET N-CH 400V 9A TO220AB



STP11NK50Z MOS
STMicroelectronics



STP11NK40ZFP
STMicroelectronics
MOSFET N-CH 400V 9A TO220FP



STP11NK40ZFP MOS
STMicroelectronics



STP11NK40Z MOS
STMicroelectronics



STP11NM60DFP
STMicroelectronics
MOSFET N-CH 600V 11A TO220FP



STP11NK50ZFP
STMicroelectronics
MOSFET N-CH 500V 10A TO220FP



STP11N52K3
STMicroelectronics
MOSFET N-CH 525V 10A TO220



STP11N65M2
STMicroelectronics
MOSFET N-CH 650V 7A TO220



STP11NM50N
STMicroelectronics
MOSFET N-CH 500V 8.5A TO220AB



STP11NB40
STMicroelectronics



STP11NM60A
STMicroelectronics
MOSFET N-CH 600V 11A TO220AB



STP11NK80Z
STMicroelectronics



STP11N60DM2
STMicroelectronics
MOSFET N-CH 600V 10A TO220



STP11N60
STMicroelectronics



STP110N8F7
STMicroelectronics
MOSFET N-CH 80V 80A TO220

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

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