

Image may be representation.
See specifications for product details.



STP15NK50Z

Manufacturer Part Number	STP15NK50Z
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP15NK50Z
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 500V 14A TO220AB
Package	TO-220-3
Data sheet	STx15NK50Z(FP,-1).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP15NK50Z - STMicroelectronics.New Original in Stock. Download Linear Technology STP15NK50Z datasheet/specifications on AllelcoElec.com.
Request a quote for STP15NK50Z, please send us email: info@allelco.com

Specifications

STP15NK50Z Tech Specifications
STP15NK50Z - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-50°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4.5V @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	2260 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	106 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	340mOhm @ 7A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	160W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	14A (Tc)
Package	Tube	Base Product Number	STP15

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP15NK50Z

Product Attribute				
Part Number	STP15NK50Z	STP160N75F3	STP150N10F7	STP150N3LLH6
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Power Dissipation (Max)	160W (Tc)	330W (Tc)	250W (Tc)	110W (Tc)
Gate Charge (Qg) (Max) @ Vgs	106 nC @ 10 V	85 nC @ 10 V	117 nC @ 10 V	40 nC @ 4.5 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Input Capacitance (Ciss) (Max) @ Vds	2260 pF @ 25 V	6750 pF @ 25 V	8115 pF @ 50 V	4040 pF @ 25 V
FET Feature	-	-	-	-
Series	SuperMESH™	STripFET™	DeepGATE™, STripFET™ VII	DeepGATE™, STripFET™ VI
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	4.5V @ 100µA	4V @ 250µA	4.5V @ 250µA	2.5V @ 250µA
Drain to Source Voltage (Vdss)	500 V	75 V	100 V	30 V
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	4.5V, 10V
Vgs (Max)	±30V	±20V	±20V	±20V
Operating Temperature	-50°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Supplier Device Package	TO-220	TO-220	TO-220	TO-220
Rds On (Max) @ Id, Vgs	340mOhm @ 7A, 10V	4mOhm @ 60A, 10V	4.2mOhm @ 55A, 10V	3.3mOhm @ 40A, 10V
Package	Tube	Tube	Tube	Tube
Current - Continuous Drain (Id) @ 25°C	14A (Tc)	120A (Tc)	110A (Tc)	80A (Tc)
Base Product Number	STP15	STP160	STP150	STP150

STP15NK50Z Datasheet PDF

Download STP15NK50Z pdf datasheets and STMicroelectronics documentation for STP15NK50Z - STMicroelectronics.

Datasheets

STx15NK50Z(FP,-1).pdf

PCN Design/Specification

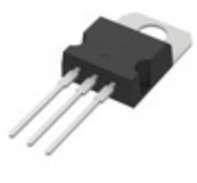

















Mult Dev Adv Material Notice 8/Apr/2019.pdf

PCN Packaging

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

					
STP160N75F3 STMicroelectronics MOSFET N-CH 75V 120A TO220AB	STP150N10F7 STMicroelectronics MOSFET N-CH 100V 110A TO220	STP150N3LLH6 STMicroelectronics MOSFET N-CH 30V 80A TO220AB	STP150NF55 MOS STMicroelectronics	STP15N80K5 STMicroelectronics MOSFET N-CH 800V 14A TO220	STP15N95K5 STMicroelectronics MOSFET N-CH 950V 12A TO220
					
STP160N4LF6 STMicroelectronics MOSFET N-CH 40V 120A TO220	STP15NK50ZFP STMicroelectronics MOSFET N-CH 500V 14A TO220FP	STP15N06L STMicroelectronics	STP150NF55 STMicroelectronics MOSFET N-CH 55V 120A TO220AB	STP15NM65N STMicroelectronics MOSFET N-CH 650V 12A TO220	STP15810 STMicroelectronics
					
STP150NF04 STMicroelectronics MOSFET N-CH 40V 80A TO220AB	STP15NM60ND STMicroelectronics MOSFET N-CH 600V 14A TO220AB	STP15N65M5 STMicroelectronics MOSFET N CH 650V 11A TO220	STP15NM60N STMicroelectronics MOSFET N-CH 600V 14A TO220AB	STP1612PW05MTR STMicroelectronics IC LED DRVR LINEAR PWM 60MA 24SO	STP160N3LL STMicroelectronics MOSFET N-CH 30V 120A 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

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