



Image may be representation.
See specifications for product details.



STF13N80K5

Manufacturer Part Number	STF13N80K5
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STF13N80K5
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 12A TO220FP
Package	TO-220-3 Full Pack
Data sheet	ST(B,F,P,W)13N80K5.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STF13N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STF13N80K5 datasheet/specifications on AllelcoElec.com.
Request a quote for STF13N80K5, please send us email: info@allelco.com

Specifications

STF13N80K5 Tech Specifications

STF13N80K5 - 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	5V @ 100µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	870 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V
Supplier Device Package	TO-220FP	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	450mOhm @ 6A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	35W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-220-3 Full Pack	Current - Continuous Drain (Id) @ 25°C	12A (Tc)
Package	Tube	Base Product Number	STF13

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STF13N80K5

Product Attribute				
Part Number	STF13N80K5	STF12NM65	STF13NM50N	STF13N60DM2
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Technology	MOSFET (Metal Oxide)	-	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package	Tube	Tube	Tube	Tube
Base Product Number	STF13	STF12	STF13	STF13
Package / Case	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack	TO-220-3 Full Pack
Operating Temperature	-55°C ~ 150°C (TJ)	-	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Rds On (Max) @ Id, Vgs	450mOhm @ 6A, 10V	-	320mOhm @ 6A, 10V	365mOhm @ 5.5A, 10V
FET Feature	-	-	-	-
Supplier Device Package	TO-220FP	TO-220FP	TO-220FP	TO-220FP
Drain to Source Voltage (Vdss)	800 V	-	500 V	600 V
Power Dissipation (Max)	35W (Tc)	-	25W (Tc)	25W (Tc)
FET Type	N-Channel	-	N-Channel	N-Channel
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Current - Continuous Drain (Id) @ 25°C	12A (Tc)	11A (Tc)	12A (Tc)	11A (Tc)
Vgs(th) (Max) @ Id	5V @ 100µA	-	4V @ 250µA	5V @ 250µA
Input Capacitance (Ciss) (Max) @ Vds	870 pF @ 100 V	-	960 pF @ 50 V	730 pF @ 100 V
Drive Voltage (Max Rds On, Min Rds On)	10V	-	10V	10V
Gate Charge (Qg) (Max) @ Vgs	29 nC @ 10 V	-	30 nC @ 10 V	19 nC @ 10 V
Vgs (Max)	±30V	-	±25V	±25V
Series	SuperMESH5™	-	MDmesh™ II	MDmesh™ DM2

STF13N80K5 Datasheet PDF

Download STF13N80K5 pdf datasheets and STMicroelectronics documentation for STF13N80K5 - STMicroelectronics.

Datasheets

[ST\(B,F,P,W\)13N80K5.pdf](#)



















PCN Assembly/Origin

[IPG/14/8597 17/Jul/2014.pdf](#)

PCN Packaging

Customers Also Interested in

Recommended Products

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STF13N60DM2 STMicroelectronics MOSFET N-CH 600V 11A TO220FP	STF13NK50Z STMicroelectronics MOSFET N-CH 500V 11A TO220FP	STF13N60M2 STMicroelectronics MOSFET N-CH 600V 11A TO220FP	STF12PF06 STMicroelectronics MOSFET P-CH 60V 8A TO220FP	STF12NM60N STMicroelectronics MOSFET N-CH 600V 10A TO220FP	STF13N95K3 STMicroelectronics MOSFET N-CH 950V 10A TO220FP
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STF13NM60N STMicroelectronics MOSFET N-CH 600V 11A TO220FP	STF13NK50Z MOS STMicroelectronics	STF13N65M2 STMicroelectronics MOSFET N-CH 650V 10A TO220FP	STF13NM70N STMicroelectronics	STF130N10F3 STMicroelectronics MOSFET N-CH 100V 46A TO220FP	STF13NM60ND STMicroelectronics MOSFET N-CH 600V 11A TO220FP

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
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Contact us if you have any questions.

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Certifications & Memberships



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Contact us

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