



Image may be representation.
See specifications for product details.



STW12NK80Z

Manufacturer Part Number	STW12NK80Z
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STW12NK80Z
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 800V 10.5A TO247-3
Package	TO-247-3
Data sheet	STx12NK80Z.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STW12NK80Z - STMicroelectronics. New Original in Stock. Download Linear Technology STW12NK80Z datasheet/specifications on AllelcoElec.com.
Request a quote for STW12NK80Z, please send us email: info@allelco.com

Specifications

STW12NK80Z Tech Specifications
STW12NK80Z - 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	2620 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	87 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	750mOhm @ 5.25A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	190W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	10.5A (Tc)
Package	Tube	Base Product Number	STW12

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW12NK80Z

Product Attribute				
Part Number	STW12NK80Z	STW11NM80	STW120NF10	STW12N150K5
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Current - Continuous Drain (Id) @ 25°C	10.5A (Tc)	11A (Tc)	110A (Tc)	7A (Tc)
Operating Temperature	-55°C ~ 150°C (TJ)	-65°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)
Series	SuperMESH™	MDmesh™	STripFET™ II	MDmesh™ K5
Rds On (Max) @ Id, Vgs	750mOhm @ 5.25A, 10V	400mOhm @ 5.5A, 10V	10.5mOhm @ 60A, 10V	1.90hm @ 3.5A, 10V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Vgs(th) (Max) @ Id	4.5V @ 100µA	5V @ 250µA	4V @ 250µA	5V @ 100µA
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Input Capacitance (Ciss) (Max) @ Vds	2620 pF @ 25 V	1630 pF @ 25 V	5200 pF @ 25 V	1360 pF @ 100 V
Supplier Device Package	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Drain to Source Voltage (Vdss)	800 V	800 V	100 V	1500 V
Power Dissipation (Max)	190W (Tc)	150W (Tc)	312W (Tc)	250W (Tc)
Gate Charge (Qg) (Max) @ Vgs	87 nC @ 10 V	43.6 nC @ 10 V	233 nC @ 10 V	47 nC @ 10 V
FET Feature	-	-	-	-
Vgs (Max)	±30V	±30V	±20V	±30V
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Base Product Number	STW12	STW11	STW120	STW12
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V

STW12NK80Z Datasheet PDF

Download STW12NK80Z pdf datasheets and STMicroelectronics documentation for STW12NK80Z - STMicroelectronics.

Datasheets

STx12NK80Z.pdf



















PCN Design/Specification

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

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 STW11NM80 STMicroelectronics MOSFET N-CH 800V 11A TO247-3	 STW12NC60 STMicroelectronics	 STW120NF10 STMicroelectronics MOSFET N-CH 100V 110A TO247-3	 STW12N150K5 STMicroelectronics MOSFET N-CH 1500V 7A TO247	 STW11NM80 MOS STMicroelectronics	 STW12NM60N STMicroelectronics MOSFET N-CH 600V 10A TO247-3
 STW12NK60Z STMicroelectronics MOSFET N-CH 600V 10A TO247-3	 STW12NK95Z STMicroelectronics MOSFET N-CH 950V 10A TO247-3	 STW12NB60 STMicroelectronics	 STW12N120K5 STMicroelectronics MOSFET N-CH 1200V 12A TO247	 STW13N60M2 STMicroelectronics MOSFET N-CH 600V 11A TO247	 STW12NK90Z STMicroelectronics MOSFET N-CH 900V 11A TO247-3
 STW13009 STMicroelectronics TRANS NPN 400V 12A TO247-3	 STW12NK80Z MOS STMicroelectronics	 STW120NF10 MOS STMicroelectronics	 STW12NA50 STMicroelectronics	 STW13N95K3 STMicroelectronics MOSFET N-CH 950V 10A TO247-3	 STW12NK90Z 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 -

 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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