



Image may be representation.  
See specifications for product details.



## STW120NF10

Manufacturer Part Number	<b>STW120NF10</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STW120NF10
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 100V 110A TO247-3
Package	TO-247-3
Data sheet	<b>STx120NF10.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STW120NF10 - STMicroelectronics. New Original in Stock. Download Linear Technology STW120NF10 datasheet/specifications on AllelcoElec.com.  
Request a quote for STW120NF10, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STW120NF10 Tech Specifications  
STW120NF10 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	5200 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	233 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	10.5mOhm @ 60A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	312W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	110A (Tc)
Package	Tube	Base Product Number	STW120

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW120NF10

Product Attribute				
Part Number	STW120NF10	STW11NM80	STW12NK90Z	STW12NK80Z
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Power Dissipation (Max)	312W (Tc)	150W (Tc)	230W (Tc)	190W (Tc)
FET Feature	-	-	-	-
Package	Tube	Tube	Tube	Tube
Rds On (Max) @ Id, Vgs	10.5mOhm @ 60A, 10V	400mOhm @ 5.5A, 10V	880mOhm @ 5.5A, 10V	750mOhm @ 5.25A, 10V
Input Capacitance (Ciss) (Max) @ Vds	5200 pF @ 25 V	1630 pF @ 25 V	3500 pF @ 25 V	2620 pF @ 25 V
Operating Temperature	-55°C ~ 175°C (TJ)	-65°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Vgs (Max)	±20V	±30V	±30V	±30V
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Series	STripFET™ II	MDmesh™	SuperMESH™	SuperMESH™
Gate Charge (Qg) (Max) @ Vgs	233 nC @ 10 V	43.6 nC @ 10 V	152 nC @ 10 V	87 nC @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss)	100 V	800 V	900 V	800 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Base Product Number	STW120	STW11	STW12	STW12
Vgs(th) (Max) @ Id	4V @ 250µA	5V @ 250µA	4.5V @ 100µA	4.5V @ 100µA
Supplier Device Package	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Current - Continuous Drain (Id) @ 25°C	110A (Tc)	11A (Tc)	11A (Tc)	10.5A (Tc)

### STW120NF10 Datasheet PDF

Download STW120NF10 pdf datasheets and STMicroelectronics documentation for STW120NF10 - STMicroelectronics.

#### Datasheets

STx120NF10.pdf

#### PCN Design/Specification



















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

#### PCN Assembly/Origin

PCN Obsolescence/ EOL

Customers Also Interested in

Recommended Products

 <b>STW11NM80</b> STMicroelectronics MOSFET N-CH 800V 11A TO247-3	 <b>STW12NK80Z MOS</b> STMicroelectronics	 <b>STW12NB60</b> STMicroelectronics	 <b>STW12NK90Z</b> STMicroelectronics MOSFET N-CH 900V 11A TO247-3	 <b>STW12NK80Z</b> STMicroelectronics MOSFET N-CH 800V 10.5A TO247-3	 <b>STW120NF10 MOS</b> STMicroelectronics
 <b>STW12NA50</b> STMicroelectronics	 <b>STW12NC60</b> STMicroelectronics	 <b>STW11NK90Z MOS</b> STMicroelectronics	 <b>STW11NK100Z</b> STMicroelectronics MOSFET N-CH 1000V 8.3A TO247-3	 <b>STW11NK90Z</b> STMicroelectronics MOSFET N-CH 900V 9.2A TO247-3	 <b>STW11NM80 MOS</b> STMicroelectronics
 <b>STW12N120K5</b> STMicroelectronics MOSFET N-CH 1200V 12A TO247	 <b>STW11NK100Z MOS</b> STMicroelectronics	 <b>STW11N80</b> STMicroelectronics	 <b>STW12N150K5</b> STMicroelectronics MOSFET N-CH 1500V 7A TO247	 <b>STW11N80</b> STMicroelectronics MOSFET N-CH 800V 11A TO247-3	 <b>STW12NK60Z</b> STMicroelectronics MOSFET N-CH 600V 10A TO247-3

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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