



Image may be representation.
See specifications for product details.



STW20NM50

Manufacturer Part Number	STW20NM50
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STW20NM50
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 550V 20A TO247-3
Package	TO-247-3
Data sheet	STW20NM50.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STW20NM50 - STMicroelectronics.New Original in Stock. Download Linear Technology STW20NM50 datasheet/specifications on AllelcoElec.com.
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Specifications

STW20NM50 Tech Specifications

STW20NM50 - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	150°C (TJ)
Vgs(th) (Max) @ Id	5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	1480 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	56 nC @ 10 V
Supplier Device Package	TO-247-3	FET Type	N-Channel
Series	MDmesh™	FET Feature	-
Rds On (Max) @ Id, Vgs	250mOhm @ 10A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	214W (Tc)	Drain to Source Voltage (Vdss)	550 V
Package / Case	TO-247-3	Current - Continuous Drain (Id) @ 25°C	20A (Tc)
Package	Tube	Base Product Number	STW20N

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STW20NM50

Product Attribute				
Part Number	STW20NM50	STW21N90K5	STW20NM60FD	STW20NM60
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Operating Temperature	150°C (TJ)	-55°C ~ 150°C (TJ)	-65°C ~ 150°C (TJ)	150°C (TJ)
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Series	MDmesh™	SuperMESH5™	FDmesh™	MDmesh™
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Supplier Device Package	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Input Capacitance (Ciss) (Max) @ Vds	1480 pF @ 25 V	1645 pF @ 100 V	1300 pF @ 25 V	1500 pF @ 25 V
Gate Charge (Qg) (Max) @ Vgs	56 nC @ 10 V	43 nC @ 10 V	37 nC @ 10 V	54 nC @ 10 V
Package	Tube	Tube	Tube	Tube
Current - Continuous Drain (Id) @ 25°C	20A (Tc)	18.5A (Tc)	20A (Tc)	20A (Tc)
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 100µA	5V @ 250µA	5V @ 250µA
Power Dissipation (Max)	214W (Tc)	250W (Tc)	214W (Tc)	192W (Tc)
Rds On (Max) @ Id, Vgs	250mOhm @ 10A, 10V	299mOhm @ 9A, 10V	290mOhm @ 10A, 10V	290mOhm @ 10A, 10V
Drain to Source Voltage (Vdss)	550 V	900 V	600 V	600 V
Vgs (Max)	±30V	±30V	±30V	±30V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Base Product Number	STW20N	STW21	STW20	STW20

STW20NM50 Datasheet PDF

Download STW20NM50 pdf datasheets and STMicroelectronics documentation for STW20NM50 - STMicroelectronics.

Datasheets

STW20NM50.pdf

Customers Also Interested in

Recommended Products

**STW21N90K5**STMicroelectronics
MOSFET N-CH 900V 18.5A TO247-3**STW20NM60FD**STMicroelectronics
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MOSFET N-CH 1500V 14A TO247**STW21N65M5**STMicroelectronics
MOSFET N-CH 650V 17A TO247-3**STW20NK50Z**STMicroelectronics
MOSFET N-CH 500V 17A TO247-3**STW20NC50**

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**STW20NB50**STMicroelectronics
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MOSFET N-CH 700V 20A TO247-3**STW20N95K5 MOS**

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**STW21NM60**

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**STW20NK50Z MOS**

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**STW20N65M5**STMicroelectronics
MOSFET N-CH 650V 18A TO247

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.



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Contact us if you have any questions.



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