



Image may be representation.  
See specifications for product details.



## STP160N3LL

Manufacturer Part Number	<b>STP160N3LL</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STP160N3LL
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 30V 120A TO220
Package	TO-220-3
Data sheet	<b>STP160N3LL.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STP160N3LL - STMicroelectronics. New Original in Stock. Download Linear Technology STP160N3LL datasheet/specifications on AllelcoElec.com.  
Request a quote for STP160N3LL, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STP160N3LL Tech Specifications

STP160N3LL - 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	2.5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3500 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	42 nC @ 4.5 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	STripFET™ H6	FET Feature	-
Rds On (Max) @ Id, Vgs	3.2mOhm @ 60A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	136W (Tc)	Drain to Source Voltage (Vdss)	30 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Package	Tube	Base Product Number	STP160

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP160N3LL

Product Attribute				
Part Number	STP160N3LL	STP15N80K5	STP15NK50ZFP	STP15NM65N
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	10V	10V	10V
Rds On (Max) @ Id, Vgs	3.2mOhm @ 60A, 10V	375mOhm @ 7A, 10V	340mOhm @ 7A, 10V	380mOhm @ 6A, 10V
Current - Continuous Drain (Id) @ 25°C	120A (Tc)	14A (Tc)	14A (Tc)	12A (Tc)
Package / Case	TO-220-3	TO-220-3	TO-220-3 Full Pack	TO-220-3
Gate Charge (Qg) (Max) @ Vgs	42 nC @ 4.5 V	32 nC @ 10 V	106 nC @ 10 V	33.3 nC @ 10 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Vgs(th) (Max) @ Id	2.5V @ 250µA	5V @ 100µA	4.5V @ 100µA	4V @ 250µA
Power Dissipation (Max)	136W (Tc)	190W (Tc)	40W (Tc)	125W (Tc)
Vgs (Max)	±20V	±30V	±30V	±25V
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-50°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Supplier Device Package	TO-220	TO-220	TO-220FP	TO-220
Series	STripFET™ H6	SuperMESH5™	SuperMESH™	MDmesh™ II
Drain to Source Voltage (Vdss)	30 V	800 V	500 V	650 V
Input Capacitance (Ciss) (Max) @ Vds	3500 pF @ 25 V	1100 pF @ 100 V	2260 pF @ 25 V	983 pF @ 50 V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package	Tube	Tube	Tube	Tube
Base Product Number	STP160	STP15	STP15N	STP15N
FET Feature	-	-	-	-

### STP160N3LL Datasheet PDF

Download STP160N3LL pdf datasheets and STMicroelectronics documentation for STP160N3LL - STMicroelectronics.

#### Datasheets

STP160N3LL.pdf

#### PCN Design/Specification

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

#### PCN Assembly/Origin



## Customers Also Interested in

### Recommended Products

**STP15N80K5**STMicroelectronics  
MOSFET N-CH 800V 14A TO220**STP15NK50ZFP**STMicroelectronics  
MOSFET N-CH 500V 14A TO220FP**STP16C596B1R**STMicroelectronics  
IC LED DRIVER LINEAR 120MA  
24DIP**STP15N06L**

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**STP15NM65N**STMicroelectronics  
MOSFET N-CH 650V 12A TO220**STP16C596M**STMicroelectronics  
IC LED DRIVER LINEAR 120MA 24SO**STP160N4LF6**STMicroelectronics  
MOSFET N-CH 40V 120A TO220**STP15NM60N**STMicroelectronics  
MOSFET N-CH 600V 14A TO220AB**STP15N95K5**STMicroelectronics  
MOSFET N-CH 950V 12A TO220**STP160N75F3 MOS**

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**STP15NM60ND**STMicroelectronics  
MOSFET N-CH 600V 14A TO220AB**STP15NK50Z**STMicroelectronics  
MOSFET N-CH 500V 14A TO220AB**STP15810**

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**STP160N75F3**STMicroelectronics  
MOSFET N-CH 75V 120A TO220AB**STP160N4LF6 MOS**

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**STP15N65M5**STMicroelectronics  
MOSFET N CH 650V 11A TO220**STP165N10F4**STMicroelectronics  
MOSFET N-CH 100V 120A TO220AB**STP1612PW05MTR**STMicroelectronics  
IC LED DRVR LINEAR PWM 60MA  
24SO

## 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

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Email

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## Certifications & Memberships



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