



Image may be representation.
See specifications for product details.



STP150NF55

Manufacturer Part Number	STP150NF55
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STP150NF55
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 55V 120A TO220AB
Package	TO-220-3
Data sheet	STx150NF55.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STP150NF55 - STMicroelectronics. New Original in Stock. Download Linear Technology STP150NF55 datasheet/specifications on AllelcoElec.com.
Request a quote for STP150NF55, please send us email: info@allelco.com

Specifications

STP150NF55 Tech Specifications

STP150NF55 - 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	4400 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	190 nC @ 10 V
Supplier Device Package	TO-220	FET Type	N-Channel
Series	STripFET™ II	FET Feature	-
Rds On (Max) @ Id, Vgs	6mOhm @ 60A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	300W (Tc)	Drain to Source Voltage (Vdss)	55 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Package	Tube	Base Product Number	STP150

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STP150NF55

Product Attribute				
Part Number	STP150NF55	STP15NK50ZFP	STP15N95K5	STP14NM65N
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Input Capacitance (Ciss) (Max) @ Vds	4400 pF @ 25 V	2260 pF @ 25 V	900 pF @ 100 V	1300 pF @ 50 V
Vgs(th) (Max) @ Id	4V @ 250µA	4.5V @ 100µA	5V @ 100µA	4V @ 250µA
Package / Case	TO-220-3	TO-220-3 Full Pack	TO-220-3	TO-220-3
Drain to Source Voltage (Vdss)	55 V	500 V	950 V	650 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Package	Tube	Tube	Tube	Tube
Operating Temperature	-55°C ~ 175°C (TJ)	-50°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	150°C (TJ)
Vgs (Max)	±20V	±30V	±30V	±25V
Power Dissipation (Max)	300W (Tc)	40W (Tc)	170W (Tc)	125W (Tc)
Current - Continuous Drain (Id) @ 25°C	120A (Tc)	14A (Tc)	12A (Tc)	12A (Tc)
Base Product Number	STP150	STP15N	STP15	STP14N
Gate Charge (Qg) (Max) @ Vgs	190 nC @ 10 V	106 nC @ 10 V	40 nC @ 10 V	45 nC @ 10 V
Series	STripFET™ II	SuperMESH™	SuperMESH5™	MDmesh™ II
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	6mOhm @ 60A, 10V	340mOhm @ 7A, 10V	500mOhm @ 6A, 10V	380mOhm @ 6A, 10V
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Supplier Device Package	TO-220	TO-220FP	TO-220	TO-220

STP150NF55 Datasheet PDF

Download STP150NF55 pdf datasheets and STMicroelectronics documentation for STP150NF55 - STMicroelectronics.

Datasheets

[STx150NF55.pdf](#)

PCN Packaging

[Box Label Chg 28/Jul/2016.pdf](#)

[Traceability 06/Mar/2017.pdf](#)

PCN Design/Specification

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

PCN Obsolescence/ EOL

STF STP 11-Nov-2022.pdf

PCN Assembly/Origin

Mult Dev Assembly Site Chg 14/Feb/2020.pdf

Customers Also Interested in

Recommended Products



STP15NK50ZFP

STMicroelectronics
MOSFET N-CH 500V 14A TO220FP



STP15N95K5

STMicroelectronics
MOSFET N-CH 950V 12A TO220



STP14NM65N

STMicroelectronics
MOSFET N-CH 650V 12A TO220AB



STP14NK60ZFP

STMicroelectronics
MOSFET N-CH 600V 13.5A TO220FP



STP14NK60Z

STMicroelectronics
MOSFET N-CH 600V 13.5A TO220AB



STP150NF04

STMicroelectronics
MOSFET N-CH 40V 80A TO220AB



STP15NM60ND

STMicroelectronics
MOSFET N-CH 600V 14A TO220AB



STP15810

STMicroelectronics



STP15N80K5

STMicroelectronics
MOSFET N-CH 800V 14A TO220



STP15NM60N

STMicroelectronics
MOSFET N-CH 600V 14A TO220AB



STP15N65M5

STMicroelectronics
MOSFET N-CH 650V 11A TO220



STP15NK50Z

STMicroelectronics
MOSFET N-CH 500V 14A TO220AB



STP14NK50Z

STMicroelectronics
MOSFET N-CH 500V 14A TO220AB



STP150N3LLH6

STMicroelectronics
MOSFET N-CH 30V 80A TO220AB



STP140NF55

STMicroelectronics



STP14NM50N

STMicroelectronics
MOSFET N-CH 500V 12A TO220



STP14NK50ZFP

STMicroelectronics
MOSFET N-CH 500V 14A TO220FP



STP150N10F7

STMicroelectronics
MOSFET N-CH 100V 110A TO220

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
+00852 9146 4856
- Email
info@allelco.com

Certifications & Memberships



View More

