



### STP11NK50Z Information



For Reference Only

Part Number STP11NK50Z

Manufacturer STMicroelectronics

Category Discrete Semiconductor Products

Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 500V 10A TO-220

Package TO-220-3

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## STP11NK50Z Specifications

Manufacturer Part Number         STP11NK50Z           Manufacturer         STMicroelectronics           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-220-3           Series         SuperMESH?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4.5V @ 100µA           Gate Charge (Qg) (Max) @ Vgs         68nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1390pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         125W (Tc)           Rds On (Max) @ Id, Vgs         520 mOhm @ 4.5A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB           Package / Case         TO-220-3		
Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-220-3           Series         SuperMESH?           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         500V           Current - Continuous Drain (Id) @ 25°C         10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         10V           Vgs(th) (Max) @ Id         4.5V @ 100μA           Gate Charge (Qg) (Max) @ Vgs         68nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         1390pF @ 25V           Vgs (Max)         ±30V           FET Feature         -           Power Dissipation (Max)         125W (Tc)           Rds On (Max) @ Id, Vgs         520 mOhm @ 4.5A, 10V           Operating Temperature         -55°C ~ 150°C (TJ)           Mounting Type         Through Hole           Supplier Device Package         TO-220AB           Package / Case         TO-220AB	Manufacturer Part Number	STP11NK50Z
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FET Type  N-Channel  Technology  MOSFET (Metal Oxide)  500V  Current - Continuous Drain (Id) @ 25°C  10A (Tc)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  520 mOhm @ 4.5A, 10V  Operating Temperature  Mounting Type  Supplier Device Package  Package / Case  N-Channel  MOSFET (Metal Oxide)  NOSFET (Metal Oxide)  10A (Tc)  10A (T	Package	TO-220-3
Technology Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 10A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id 4.5V @ 100µA Gate Charge (Qg) (Max) @ Vgs 68nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1390pF @ 25V Vgs (Max) FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 520 mOhm @ 4.5A, 10V Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Through Hole Supplier Device Package Package / Case TO-220AB Package / Case	Series	SuperMESH?
Drain to Source Voltage (Vdss)500VCurrent - Continuous Drain (Id) @ 25°C10A (Tc)Drive Voltage (Max Rds On, Min Rds On)10VVgs(th) (Max) @ Id4.5V @ 100μAGate Charge (Qg) (Max) @ Vgs68nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1390pF @ 25VVgs (Max)±30VFET Feature-Power Dissipation (Max)125W (Tc)Rds On (Max) @ Id, Vgs520 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	FET Type	N-Channel
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Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  1390pF @ 25V  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  125W (Tc)  Supplier Device Package  TO-220AB  Package / Case  68nC @ 10V  1390pF @ 25V  125W (Tc)  125W (	Drive Voltage (Max Rds On, Min Rds On)	10V
Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  520 mOhm @ 4.5A, 10V  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  Package / Case  TO-220-3	Vgs(th) (Max) @ Id	4.5V @ 100μA
Vgs (Max)±30VFET Feature-Power Dissipation (Max)125W (Tc)Rds On (Max) @ Id, Vgs520 mOhm @ 4.5A, 10VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeThrough HoleSupplier Device PackageTO-220ABPackage / CaseTO-220-3	Gate Charge (Qg) (Max) @ Vgs	68nC @ 10V
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Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Through Hole  Supplier Device Package  TO-220AB  Package / Case  TO-220-3	Power Dissipation (Max)	125W (Tc)
Mounting Type Through Hole Supplier Device Package TO-220AB Package / Case TO-220-3	Rds On (Max) @ Id, Vgs	520 mOhm @ 4.5A, 10V
Supplier Device Package TO-220AB Package / Case TO-220-3	Operating Temperature	-55°C ~ 150°C (TJ)
Package / Case TO-220-3	Mounting Type	Through Hole
	Supplier Device Package	TO-220AB
Report errors?	Package / Case	TO-220-3
		Report errors?

#### STP11NK50Z Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

## STP11NK50Z Payment Methods





















### STP11NK50Z Shipping Methods













If you have any question about STP11NK50Z, please do not hesitate to contact us!

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