

Image may be representation.
See specifications for product details.



STQ1NK80ZR-AP

Manufacturer Part Number	STQ1NK80ZR-AP
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STQ1NK80ZR-AP
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 800V 300MA TO92-3
Package	TO-226-3, TO-92-3 (TO-226AA) Formed Leads
Data sheet	STx1NK80ZR(R-AP,-1).pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STQ1NK80ZR-AP - STMicroelectronics.New Original in Stock. Download Linear Technology STQ1NK80ZR-AP datasheet/specifications on AllelcoElec.com.
Request a quote for STQ1NK80ZR-AP, please send us email: info@allelco.com

Specifications

STQ1NK80ZR-AP Tech Specifications
STQ1NK80ZR-AP - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	4.5V @ 50µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	160 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	7.7 nC @ 10 V
Supplier Device Package	TO-92-3	FET Type	N-Channel
Series	SuperMESH™	FET Feature	-
Rds On (Max) @ Id, Vgs	160hm @ 500mA, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	3W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-226-3, TO-92-3 (TO-226AA) Formed Leads	Current - Continuous Drain (Id) @ 25°C	300mA (Tc)
Package	Cut Tape (CT)	Base Product Number	STQ1NK80

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STQ1NK80ZR-AP

Product Attribute				
Part Number	STQ1NK80ZR-AP	STQ2LN60K3-AP	STQ1NC45R-AP	STQ2HNK60ZR-AP
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Package / Case	TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-226-3, TO-92-3 (TO-226AA) Formed Leads
Current - Continuous Drain (Id) @ 25°C	300mA (Tc)	600mA (Tc)	500mA (Tc)	500mA (Tc)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Power Dissipation (Max)	3W (Tc)	2.5W (Tc)	3.1W (Tc)	3W (Tc)
Drain to Source Voltage (Vdss)	800 V	600 V	450 V	600 V
Gate Charge (Qg) (Max) @ Vgs	7.7 nC @ 10 V	12 nC @ 10 V	7 nC @ 10 V	15 nC @ 10 V
Vgs (Max)	±30V	±30V	±30V	±30V
FET Feature	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	STQ1NK80	STQ2LN60	STQ1NC45	STQ2HNK60
Supplier Device Package	TO-92-3	TO-92-3	TO-92-3	TO-92-3
Input Capacitance (Ciss) (Max) @ Vds	160 pF @ 25 V	235 pF @ 50 V	160 pF @ 25 V	280 pF @ 25 V
Series	SuperMESH™	SuperMESH3™	SuperMESH™	SuperMESH™
Package	Cut Tape (CT)	Cut Tape (CT)	Cut Tape (CT)	Cut Tape (CT)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	4.5V @ 50µA	4.5V @ 50µA	3.7V @ 250µA	4.5V @ 50µA
Rds On (Max) @ Id, Vgs	160hm @ 500mA, 10V	4.50hm @ 1A, 10V	4.50hm @ 500mA, 10V	4.80hm @ 1A, 10V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Operating Temperature	-55°C ~ 150°C (TJ)	150°C (TJ)	-65°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)

STQ1NK80ZR-AP Datasheet PDF

Download STQ1NK80ZR-AP pdf datasheets and STMicroelectronics documentation for STQ1NK80ZR-AP - STMicroelectronics.

Datasheets

[STx1NK80ZR\(R-AP,-1\).pdf](#)

PCN Design/Specification



















[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

PCN Assembly/Origin



Customers Also Interested in

Recommended Products

 life.augmented	 life.augmented	 life.augmented	 life.augmented		 life.augmented
STQ2HNK60ZR STMicroelectronics	STQ1NK60ZR STMicroelectronics	STQ1NE10L/APS STMicroelectronics	STQ1NK60Z STMicroelectronics	STQ2016Z RFMD	STQ1NE10L-AP STMicroelectronics
 life.augmented		 life.augmented		 life.augmented	 life.augmented
STQ1NE10L STMicroelectronics	STQ2016 SIRENZA	STQ1NK60ZR-AP MOS STMicroelectronics	STQ2LN60K3-AP STMicroelectronics MOSFET N-CH 600V 600MA TO92-3	STQ2NK60ZR-AP MOS STMicroelectronics	STQ1NK60ZR-APV3 MOS STMicroelectronics
		 life.augmented			
STQ1NC45R-AP STMicroelectronics MOSFET N-CH 450V 500MA TO92-3	STQ2HNK60ZR-AP STMicroelectronics MOSFET N-CH 600V 500MA TO92-3	STQ1NK60ZR-APV3 STMicroelectronics	STQ2NK60ZR-AP STMicroelectronics MOSFET N-CH 600V 400MA TO92-3	STQ3N45K3-AP STMicroelectronics MOSFET N-CH 450V 600MA TO92-3	STQ1NK60ZR-AP STMicroelectronics MOSFET N-CH 600V 300MA TO92-3

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.

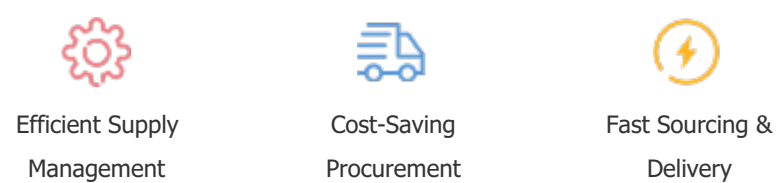
Payment Support

The payment method can be chosen from the methods shown below:

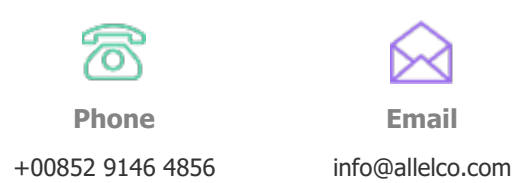
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



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info@allelco.com

Certifications & Memberships



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