



Image may be representation.
See specifications for product details.

# **STD2N80K5**

ECAD Model

Data sheet

Manufacturer Part Number **STD2N80K5** 

Manufacturer STMicroelectronics

Allelco Part Number 32D-STD2N80K5

PCB Footprint and Symbol

Parts Description MOSFET N-CH 800V 2A DPAK

Package TO-252-3, DPak (2 Leads + Tab), SC-63

STx2N80K5.pdf

RoHs Status ROHS3 Compliant

Get a Quote



STD2N80K5 - STMicroelectronics.New Original in Stock. Download Linear Technology STD2N80K5 datasheet/specifications on AllelcoElec.com. Request a quote for STD2N80K5, please send us email: info@allelco.com

## **Specifications**

STD2N80K5 Tech Specifications

STD2N80K5 - 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	5V @ 100μA	Mounting Type	Surface Mount
Vgs (Max)	30V	Input Capacitance (Ciss) (Max) @ Vds	95 pF @ 100 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V
Supplier Device Package	DPAK	FET Type	N-Channel
Series	SuperMESH5™	FET Feature	-
Rds On (Max) @ Id, Vgs	4.50hm @ 1A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	45W (Tc)	Drain to Source Voltage (Vdss)	800 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	2A (Tc)
Package	Tape & Reel (TR)	Base Product Number	STD2N80

## **Parts with Similar Specifications**

The three parts on the right have similar specifications to STMicroelectronics STD2N80K5

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Product Attribute					
Part Number	STD2N80K5	STD2HNK60Z-1	STD2N95K5	STD2N62K3	
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics	
Input Capacitance (Ciss) (Max) @ Vds	95 pF @ 100 V	280 pF @ 25 V	105 pF @ 100 V	340 pF @ 50 V	
Package	Tape & Reel (TR)	Tube	Tape & Reel (TR)	Tape & Reel (TR)	
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V	
Vgs(th) (Max) @ Id	5V @ 100μA	4.5V @ 50μA	5V @ 100μA	4.5V @ 50μA	
Series	SuperMESH5™	SuperMESH™	SuperMESH5™	SuperMESH3™	
Supplier Device Package	DPAK	TO-251 (IPAK)	DPAK	DPAK	
Mounting Type	Surface Mount	Through Hole	Surface Mount	Surface Mount	
Base Product Number	STD2N80	STD2HNK60	STD2N95	STD2N62	
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ∼ 150°C (TJ)	150°C (TJ)	
Power Dissipation (Max)	45W (Tc)	45W (Tc)	45W (Tc)	45W (Tc)	
Vgs (Max)	30V	±30V	30V	±30V	
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	
Rds On (Max) @ Id, Vgs	4.50hm @ 1A, 10V	4.80hm @ 1A, 10V	50hm @ 1A, 10V	3.60hm @ 1.1A, 10V	
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-251-3 Short Leads, IPak, TO-251AA	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	
Current - Continuous Drain (Id) @ 25°C	2A (Tc)	2A (Tc)	2A (Tc)	2.2A (Tc)	
FET Feature	-	-	-	-	
FET Type	N-Channel	N-Channel	N-Channel	N-Channel	
Drain to Source Voltage (Vdss)	800 V	600 V	950 V	620 V	
Gate Charge (Qg) (Max) @ Vgs	3 nC @ 10 V	15 nC @ 10 V	10 nC @ 10 V	15 nC @ 10 V	

## **▼** STD2N80K5 Datasheet PDF

Download STD2N80K5 pdf datasheets and STMicroelectronics documentation for STD2N80K5 - STMicroelectronics.

## Datasheets



## PCN Packaging

Box Label Chg 28/Jul/2016.pdf



Mult Dev Inner Box Chg 9/Dec/2021.pdf

### **Customers Also Interested in**

### **Recommended Products**



STD2NB25T4

STMicroelectronics



STD2HNK60Z-1 STMicroelectronics

MOSFET N-CH 600V 2A IPAK



**STD2N95K5** 

STMicroelectronics MOSFET N-CH 950V 2A DPAK



STD2N40-1

STMicroelectronics



**STD2N60** 

STMicroelectronics



STD2HNK60ZT4 STMicroelectronics



STD2N62K3 STMicroelectronics MOSFET N-CH 620V 2.2A DPAK



**STD2NB50T4** 

STMicroelectronics



STD2LN60K3

STMicroelectronics MOSFET N CH 600V 2A DPAK



STD2HNK60Z

STMicroelectronics MOSFET N-CH 600V 2A DPAK



STD2NA50T4

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#### STD29NF03LT4 MOS

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STD2HNK60Z MOS

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STD2NB50

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STD2NB50 MOS

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STD2NB60T4

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STD2HNK60Z-1 MOS

STMicroelectronics



**STD2NB40-1** 

STMicroelectronics

## **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		
America	Brazil	7		
	Germany	5		
Europe	United Kingdom	4		
	Italy	5		
Oceania	Australia	6		
Oceania	New Zealand	7		
Asia	India	6		
noid	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 -

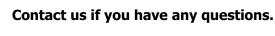




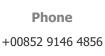


Procurement









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