



# NVMFS5C450NAFT1G

Manufacturer Part Number	<b>NVMFS5C450NAFT1G</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-NVMFS5C450NAFT1G
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 40V 24A/102A SDFN
Package	8-PowerTDFN, 5 Leads
Data sheet	<b>NVMFS5C450N.pdf</b>
RoHs Status	ROHS3 Compliant

Get a Quote

NVMFS5C450NAFT1G - onsemi.New Original in Stock. Download Linear Technology NVMFS5C450NAFT1G datasheet/specifications on AllelcoElec.com.  
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## Specifications

NVMFS5C450NAFT1G Tech Specifications  
NVMFS5C450NAFT1G - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	3.5V @ 65µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	1600 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	23 nC @ 10 V
Supplier Device Package	5-DFN (5x6) (8-SOFL)	FET Type	N-Channel
Series	Automotive, AEC-Q101	FET Feature	-
Rds On (Max) @ Id, Vgs	3.3mOhm @ 50A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	3.6W (Ta), 68W (Tc)	Drain to Source Voltage (Vdss)	40 V
Package / Case	8-PowerTDFN, 5 Leads	Current - Continuous Drain (Id) @ 25°C	24A (Ta), 102A (Tc)
Package	Tape & Reel (TR)	Base Product Number	NVMFS5

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi NVMFS5C450NAFT1G

Product Attribute	NO PICTURE			
Part Number	NVMFS5C450NAFT1G	NVMFS5C442NLAFT1G	NVMFS5C442NWFAPT1G	NVMFS5C450NLWFAPT1G
Manufacturer	onsemi	onsemi	onsemi	onsemi
Series	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Drain to Source Voltage (Vdss)	40 V	40 V	40 V	40 V
Drive Voltage (Max Rds On, Min Rds On)	10V	4.5V, 10V	10V	4.5V, 10V
Package / Case	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads
Gate Charge (Qg) (Max) @ Vgs	23 nC @ 10 V	50 nC @ 10 V	32 nC @ 10 V	35 nC @ 10 V
FET Feature	-	-	-	-
Rds On (Max) @ Id, Vgs	3.3mOhm @ 50A, 10V	2.5mOhm @ 50A, 10V	2.3mOhm @ 50A, 10V	2.8mOhm @ 40A, 10V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Supplier Device Package	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount, Wettable Flank
Power Dissipation (Max)	3.6W (Ta), 68W (Tc)	3.7W (Ta), 83W (Tc)	3.7W (Ta), 83W (Tc)	68W (Tc)
Input Capacitance (Ciss) (Max) @ Vds	1600 pF @ 25 V	3100 pF @ 25 V	2100 pF @ 25 V	2100 pF @ 20 V
Vgs(th) (Max) @ Id	3.5V @ 65µA	2V @ 250µA	4V @ 250µA	2V @ 250µA
Vgs (Max)	±20V	±20V	±20V	±20V
Base Product Number	NVMFS5	NVMFS5	NVMFS5	NVMFS5
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Current - Continuous Drain (Id) @ 25°C	24A (Ta), 102A (Tc)	29A (Ta), 130A (Tc)	29A (Ta), 140A (Tc)	110A (Tc)

## NVMFS5C450NAFT1G Datasheet PDF

Download NVMFS5C450NAFT1G pdf datasheets and onsemi documentation for NVMFS5C450NAFT1G - onsemi.

### Datasheets

NVMFS5C450N.pdf

### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf



















### PCN Packaging

PCN Assembly/Origin

NVMFS- 03/Jan/2023.pdf

Customers Also Interested in

Recommended Products

					
<b>NVMFS5C442NLAFT1G</b> onsemi MOSFET N-CH 40V 29A/130A 5DFN	<b>NVMFS5C442NWFAPT1G</b> onsemi MOSFET N-CH 40V 29A/140A 5DFN	<b>NVMFS5C450NLWFAFT1G</b> onsemi MOSFET N-CH 40V 110A 5DFN	<b>NVMFS5C442NLAFT3G</b> onsemi MOSFET N-CH 40V 29A/130A 5DFN	<b>NVMFS5C450NLWFT1G</b> onsemi MOSFET N-CH 40V 5DFN	<b>NVMFS5C442NLWFT1G</b> onsemi MOSFET N-CH 40V 27A/127A 5DFN
					
<b>NVMFS5C442NT1G</b> onsemi MOSFET N-CH 40V 5DFN	<b>NVMFS5C456NLT1G</b> onsemi MOSFET N-CH 40V 5DFN	<b>NVMFS5C442NLWFAFT1G</b> onsemi MOSFET N-CH 40V 29A/130A 5DFN	<b>NVMFS5C456NLAFT1G</b> onsemi MOSFET N-CH 40V 87A 5DFN	<b>NVMFS5C460NLAFT1G</b> onsemi MOSFET N-CH 40V 21A/78A 5DFN	<b>NVMFS5C460NLT1G</b> onsemi MOSFET N-CH 40V 5DFN
					
<b>NVMFS5C456NLWFT1G</b> onsemi MOSFET N-CH 40V 5DFN	<b>NVMFS5C442NLT1G</b> onsemi MOSFET N-CH 40V 27A/127A 5DFN	<b>NVMFS5C442NAFT1G</b> onsemi MOSFET N-CH 40V 29A/140A 5DFN	<b>NVMFS5C430NWFAPT1G</b> onsemi MOSFET N-CH 40V 35A/185A 5DFN	<b>NVMFS5C450NWFT1G</b> onsemi MOSFET N-CH 40V 5DFN	<b>NVMFS5C450NLT1G</b> onsemi MOSFET N-CH 40V 5DFN

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
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Contact us if you have any questions.

 Phone +00852 9146 4856	 Email info@allelco.com
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Certifications & Memberships



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