



NVMF5C450NLWFAFT1G

Manufacturer Part Number	NVMF5C450NLWFAFT1G
Manufacturer	onsemi
Allelco Part Number	32D-NVMF5C450NLWFAFT1G
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 40V 110A 5DFN
Package	8-PowerTDFN, 5 Leads
Data sheet	NVMF5C450NL.pdf
RoHs Status	ROHS3 Compliant



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NVMF5C450NLWFAFT1G - onsemi.New Original in Stock. Download Linear Technology NVMF5C450NLWFAFT1G datasheet/specifications on AllelcoElec.com.

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Specifications

NVMF5C450NLWFAFT1G Tech Specifications

NVMF5C450NLWFAFT1G - 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	2V @ 250µA	Mounting Type	Surface Mount, Wettable Flank
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2100 pF @ 20 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	35 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	2.8mOhm @ 40A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	68W (Tc)	Drain to Source Voltage (Vdss)	40 V
Package / Case	8-PowerTDFN, 5 Leads	Current - Continuous Drain (Id) @ 25°C	110A (Tc)
Package	Tape & Reel (TR)	Base Product Number	NVMF5S

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi NVMF5C450NLWFAFT1G

Product Attribute	NO PICTURE			
Part Number	NVMF5C450NLWFAFT1G	NVMF5C456NLAF1G	NVMF5C460NLWFAFT3G	NVMF5C450NLWFT1G
Manufacturer	onsemi	onsemi	onsemi	onsemi
Base Product Number	NVMF5S	NVMF5S	NVMF5S	NVMF5S
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	35 nC @ 10 V	18 nC @ 10 V	23 nC @ 10 V	35 nC @ 10 V
Supplier Device Package	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Drain to Source Voltage (Vdss)	40 V	40 V	40 V	40 V
Rds On (Max) @ Id, Vgs	2.8mOhm @ 40A, 10V	3.7mOhm @ 20A, 10V	4.5mOhm @ 35A, 10V	2.8mOhm @ 40A, 10V
Vgs (Max)	±20V	±20V	±20V	±20V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Input Capacitance (Ciss) (Max) @ Vds	2100 pF @ 20 V	1600 pF @ 25 V	1300 pF @ 25 V	2100 pF @ 20 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Series	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101
Vgs(th) (Max) @ Id	2V @ 250µA	2V @ 250µA	2V @ 250µA	2V @ 250µA
Current - Continuous Drain (Id) @ 25°C	110A (Tc)	87A (Tc)	21A (Ta), 78A (Tc)	110A (Tc)
Package / Case	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads
Power Dissipation (Max)	68W (Tc)	55W (Tc)	3.6W (Ta), 50W (Tc)	3.7W (Ta), 68W (Tc)
Mounting Type	Surface Mount, Wettable Flank	Surface Mount	Surface Mount	Surface Mount

NVMF5C450NLWFAFT1G Datasheet PDF

Download NVMF5C450NLWFAFT1G pdf datasheets and onsemi documentation for NVMF5C450NLWFAFT1G - onsemi.

Datasheets

[NVMF5C450NL.pdf](#)

Environmental Information













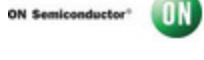





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PCN Assembly/Origin

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Recommended Products

 NVMFS5C456NLAFT1G onsemi MOSFET N-CH 40V 87A 5DFN	 NVMFS5C460NLWFAFT3G onsemi MOSFET N-CH 40V 21A/78A 5DFN	 NVMFS5C450NLWFT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C442NLWFAFT1G onsemi MOSFET N-CH 40V 29A/130A 5DFN	 NVMFS5C456NLWFAFT1G onsemi MOSFET N-CH 40V 87A 5DFN	 NVMFS5C442NLWFT1G onsemi MOSFET N-CH 40V 27A/127A 5DFN
 NVMFS5C460NLWFAFT1G onsemi MOSFET N-CH 40V 21A/78A 5DFN	 NVMFS5C442NWFPAFT1G onsemi MOSFET N-CH 40V 29A/140A 5DFN	 NVMFS5C442NLT1G onsemi MOSFET N-CH 40V 27A/127A 5DFN	 NVMFS5C442NLAFT1G onsemi MOSFET N-CH 40V 29A/130A 5DFN	 NVMFS5C460NLT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C442NLAFT3G onsemi MOSFET N-CH 40V 29A/130A 5DFN
 NVMFS5C450NLT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C460NLAFT1G onsemi MOSFET N-CH 40V 21A/78A 5DFN	 NVMFS5C456NLWFT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C450NWFT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C456NLT1G onsemi MOSFET N-CH 40V 5DFN	 NVMFS5C442NT1G 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.



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