



# NVMF55C442NLAFT3G

Manufacturer Part Number	<b>NVMF55C442NLAFT3G</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-NVMF55C442NLAFT3G
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 40V 29A/130A 5DFN
Package	8-PowerTDFN, 5 Leads
Data sheet	<b>NVMF55C442NL.pdf</b>
RoHs Status	ROHS3 Compliant



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NVMF55C442NLAFT3G - onsemi.New Original in Stock. Download Linear Technology NVMF55C442NLAFT3G datasheet/specifications on AllelcoElec.com.

Request a quote for NVMF55C442NLAFT3G, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

NVMF55C442NLAFT3G Tech Specifications

NVMF55C442NLAFT3G - 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
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	3100 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	50 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	2.5mOhm @ 50A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	3.7W (Ta), 83W (Tc)	Drain to Source Voltage (Vdss)	40 V
Package / Case	8-PowerTDFN, 5 Leads	Current - Continuous Drain (Id) @ 25°C	29A (Ta), 130A (Tc)
Package	Tape & Reel (TR)	Base Product Number	NVMF55

## Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi NVMF55C442NLAFT3G

Product Attribute	NO PICTURE			
Part Number	NVMF55C442NLAFT3G	NVMF55C442NT1G	NVMF55C442NLAFT1G	NVMF55C430NWFAFT1G
Manufacturer	onsemi	onsemi	onsemi	onsemi
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Drain to Source Voltage (Vdss)	40 V	40 V	40 V	40 V
Input Capacitance (Ciss) (Max) @ Vds	3100 pF @ 25 V	2100 pF @ 25 V	3100 pF @ 25 V	3300 pF @ 25 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Supplier Device Package	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)
Package / Case	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads
Vgs (Max)	±20V	±20V	±20V	±20V
Base Product Number	NVMF55	NVMF55	NVMF55	NVMF55
Series	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101	Automotive, AEC-Q101
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	2V @ 250µA	4V @ 250µA	2V @ 250µA	3.5V @ 250µA
Gate Charge (Qg) (Max) @ Vgs	50 nC @ 10 V	32 nC @ 10 V	50 nC @ 10 V	47 nC @ 10 V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	10V	4.5V, 10V	10V
Power Dissipation (Max)	3.7W (Ta), 83W (Tc)	3.7W (Ta), 83W (Tc)	3.7W (Ta), 83W (Tc)	3.8W (Ta), 106W (Tc)
Current - Continuous Drain (Id) @ 25°C	29A (Ta), 130A (Tc)	140A (Tc)	29A (Ta), 130A (Tc)	35A (Ta), 185A (Tc)
Rds On (Max) @ Id, Vgs	2.5mOhm @ 50A, 10V	2.3mOhm @ 50A, 10V	2.5mOhm @ 50A, 10V	1.7mOhm @ 50A, 10V

## NVMF55C442NLAFT3G Datasheet PDF

Download NVMF55C442NLAFT3G pdf datasheets and onsemi documentation for NVMF55C442NLAFT3G - onsemi.

### Datasheets

NVMF55C442NL.pdf

### Environmental Information

onsemi REACH.pdf













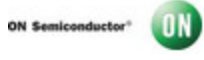
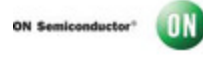
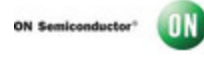
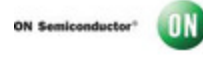
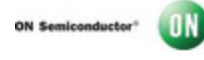
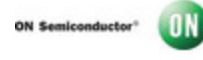
onsemi RoHS.pdf

### PCN Assembly/Origin

PCN Design/Specification

Customers Also Interested in

Recommended Products

 <b>NVMFS5C442NT1G</b> onsemi MOSFET N-CH 40V 5DFN	 <b>NVMFS5C442NLAFT1G</b> onsemi MOSFET N-CH 40V 29A/130A 5DFN	 <b>NVMFS5C430NWFAPT1G</b> onsemi MOSFET N-CH 40V 35A/185A 5DFN	 <b>NVMFS5C442NWFAPT1G</b> onsemi MOSFET N-CH 40V 29A/140A 5DFN	 <b>NVMFS5C442NLT1G</b> onsemi MOSFET N-CH 40V 27A/127A 5DFN	 <b>NVMFS5C430NLWFT1G</b> onsemi MOSFET N-CH 40V 200A 5DFN
 <b>NVMFS5C450NLT1G</b> onsemi MOSFET N-CH 40V 5DFN	 <b>NVMFS5C450NLWFAPT1G</b> onsemi MOSFET N-CH 40V 110A 5DFN	 <b>NVMFS5C430NT1G</b> onsemi MOSFET N-CH 40V 5DFN	 <b>NVMFS5C442NLWFAPT1G</b> onsemi MOSFET N-CH 40V 29A/130A 5DFN	 <b>NVMFS5C450NWFT1G</b> onsemi MOSFET N-CH 40V 5DFN	 <b>NVMFS5C430NLAFT1G</b> onsemi MOSFET N-CH 40V 38A/200A 5DFN
 <b>NVMFS5C442NLWFT1G</b> onsemi MOSFET N-CH 40V 27A/127A 5DFN	 <b>NVMFS5C430NLWFT3G</b> onsemi MOSFET N-CH 40V 200A 5DFN	 <b>NVMFS5C430NAFT1G</b> onsemi MOSFET N-CH 40V 35A/185A 5DFN	 <b>NVMFS5C430NLWFAPT1G</b> onsemi MOSFET N-CH 40V 38A/200A 5DFN	 <b>NVMFS5C450NLWFT1G</b> onsemi MOSFET N-CH 40V 5DFN	 <b>NVMFS5C442NAFT1G</b> onsemi MOSFET N-CH 40V 29A/140A 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

Contact us if you have any questions.

-  Phone  
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Certifications & Memberships



View More

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