



NVMFS5C420NT1G

Manufacturer Part Number	NVMFS5C420NT1G
Manufacturer	onsemi
Allelco Part Number	32D-NVMFS5C420NT1G
ECAD Model	Request Free CAD Models
Parts Description	POWER MOSFET, N-CHANNEL, SO8FL,
Package	8-PowerTDFN, 5 Leads
Data sheet	NVMFS5C420N.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

NVMFS5C420NT1G - onsemi.New Original in Stock. Download Linear Technology NVMFS5C420NT1G datasheet/specifications on AllelcoElec.com.

Request a quote for NVMFS5C420NT1G, please send us email: info@allelco.com

Specifications

NVMFS5C420NT1G Tech Specifications

NVMFS5C420NT1G - 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	4V @ 200µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	5340 pF @ 20 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	82 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	1.1mOhm @ 50A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	3.8W (Ta), 150W (Tc)	Drain to Source Voltage (Vdss)	40 V
Package / Case	8-PowerTDFN, 5 Leads	Current - Continuous Drain (Id) @ 25°C	43A (Ta), 268A (Tc)
Package	Tape & Reel (TR)		

Parts with Similar Specifications

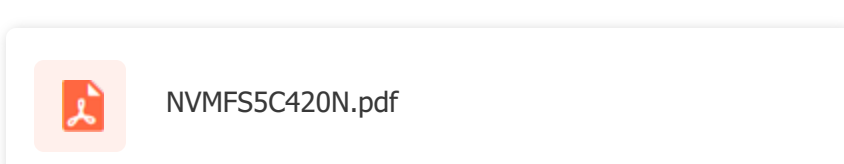
The three parts on the right have similar specifications to onsemi NVMFS5C420NT1G

Product Attribute	NO PICTURE			
Part Number	NVMFS5C420NT1G	NVMFS5C430NLWFAFT1G	NVMFS5C410NLAF1G	NVMFS5C410NLWFT1G
Manufacturer	onsemi	onsemi	onsemi	onsemi
Vgs(th) (Max) @ Id	4V @ 200µA	2V @ 250µA	2V @ 250µA	2V @ 250µA
Rds On (Max) @ Id, Vgs	1.1mOhm @ 50A, 10V	1.4mOhm @ 50A, 10V	0.82mOhm @ 50A, 10V	0.9mOhm @ 50A, 10V
Supplier Device Package	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)	5-DFN (5x6) (8-SOFL)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drive Voltage (Max Rds On, Min Rds On)	10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
Gate Charge (Qg) (Max) @ Vgs	82 nC @ 10 V	70 nC @ 10 V	143 nC @ 10 V	143 nC @ 10 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package / Case	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads	8-PowerTDFN, 5 Leads
FET Feature	-	-	-	-
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
Drain to Source Voltage (Vdss)	40 V	40 V	40 V	40 V
Vgs (Max)	±20V	±20V	±20V	±20V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Input Capacitance (Ciss) (Max) @ Vds	5340 pF @ 20 V	4300 pF @ 20 V	8862 pF @ 25 V	8862 pF @ 25 V
Current - Continuous Drain (Id) @ 25°C	43A (Ta), 268A (Tc)	38A (Ta), 200A (Tc)	50A (Ta), 330A (Tc)	48A (Ta), 315A (Tc)
Power Dissipation (Max)	3.8W (Ta), 150W (Tc)	3.8W (Ta), 110W (Tc)	3.8W (Ta), 167W (Tc)	3.8W (Ta), 167W (Tc)

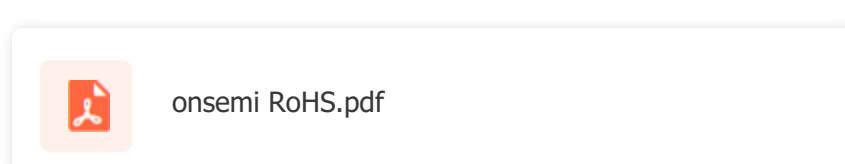
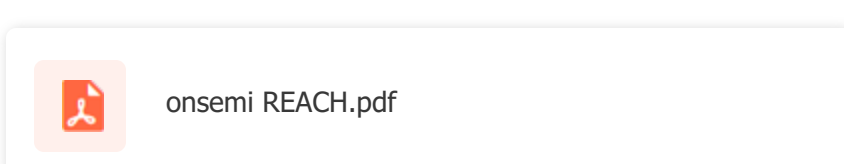
NVMFS5C420NT1G Datasheet PDF

Download NVMFS5C420NT1G pdf datasheets and onsemi documentation for NVMFS5C420NT1G - onsemi.

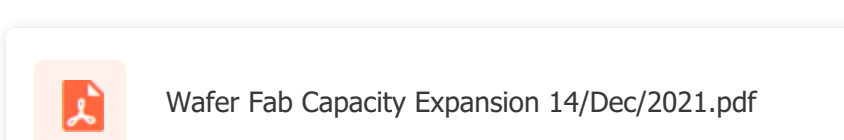
Datasheets



Environmental Information





















PCN Assembly/Origin



Customers Also Interested in

Recommended Products

 NVMF55C430NLWFAFT1G onsemi MOSFET N-CH 40V 38A/200A 5DFN	 NVMF55C410NLAFT1G onsemi MOSFET N-CH 40V 50A/330A 5DFN	 NVMF55C410NLWFT1G onsemi MOSFET N-CH 40V 48A/315A 5DFN	 NVMF55C423NLWFAFT1G onsemi MOSFET N-CH 40V 31A/150A 5DFN	 NVMF55C410NLT1G onsemi MOSFET N-CH 40V 48A/315A 5DFN	 NVMF55C410NAFT1G onsemi MOSFET N-CH 40V 46A/300A 5DFN
 NVMF55C430NLAFT1G onsemi MOSFET N-CH 40V 38A/200A 5DFN	 NVMF55C420NLT1G onsemi POWER MOSFET, SINGLE, N-CHANNEL,	 NVMF55C426NLT1G onsemi MOSFET N-CH 40V 41A/237A 5DFN	 NVMF55C410NWFT1G onsemi MOSFET N-CH 40V 5DFN	 NVMF55C426NWFAFT1G onsemi MOSFET N-CH 40V 41A/235A 5DFN	 NVMF55C423NLAFT1G onsemi MOSFET N-CH 40V 31A/150A 5DFN
 NVMF55C426NAFT1G onsemi MOSFET N-CH 40V 41A/235A 5DFN	 NVMF55C420NLWFT1G onsemi POWER MOSFET, SINGLE, N-CHANNEL,	 NVMF55C410NLWFT3G onsemi MOSFET N-CH 40V 48A/315A 5DFN	 NVMF55C430NAFT1G onsemi MOSFET N-CH 40V 35A/185A 5DFN	 NVMF55C410NWFAFT1G onsemi MOSFET N-CH 40V 46A/300A 5DFN	 NVMF55C406NT1G onsemi MOSFET N-CH 40V 52A/353A 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

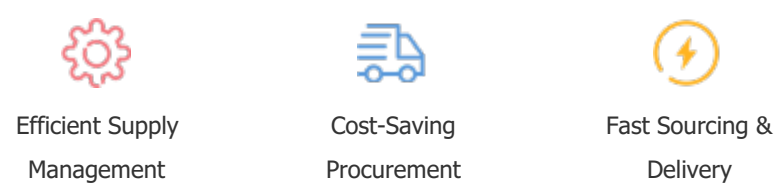
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support

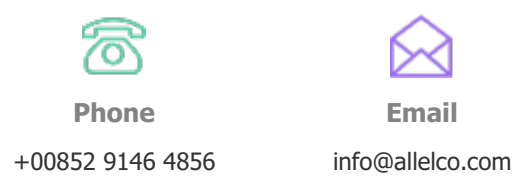
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



[View More](#)