

Image may be representation.  
See specifications for product details.



## ECH8420-TL-H

Manufacturer Part Number	<b>ECH8420-TL-H</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-ECH8420-TL-H
ECAD Model	Request Free CAD Models
Parts Description	<b>MOSFET N-CH 20V 14A 8ECH</b>
Package	<b>8-SMD, Flat Lead</b>
Data sheet	ECH8420-TL-H.pdf
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

ECH8420-TL-H - onsemi.New Original in Stock. Download Linear Technology ECH8420-TL-H datasheet/specifications on AllelcoElec.com.  
Request a quote for ECH8420-TL-H, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

ECH8420-TL-H Tech Specifications

ECH8420-TL-H - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	150°C (TJ)
Vgs(th) (Max) @ Id	-	Mounting Type	Surface Mount
Vgs (Max)	±12V	Input Capacitance (Ciss) (Max) @ Vds	2430 pF @ 10 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	29 nC @ 4.5 V
Supplier Device Package	8-ECH	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	6.8mOhm @ 7A, 4.5V	Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V
Power Dissipation (Max)	1.6W (Ta)	Drain to Source Voltage (Vdss)	20 V
Package / Case	8-SMD, Flat Lead	Current - Continuous Drain (Id) @ 25°C	14A (Ta)
Package	Tape & Reel (TR)	Base Product Number	ECH8420

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi ECH8420-TL-H

Product Attribute				
Part Number	ECH8420-TL-H	<b>ECH8410-TL-H</b>	<b>ECH8320-TL-H</b>	<b>ECH8320-TL-H</b>
Manufacturer	onsemi	Sanyo	Fairchild Semiconductor	onsemi
Series	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	29 nC @ 4.5 V	31 nC @ 10 V	25 nC @ 4.5 V	25 nC @ 10 V
Rds On (Max) @ Id, Vgs	6.8mOhm @ 7A, 4.5V	10mOhm @ 6A, 10V	14.5mOhm @ 5A, 4.5V	14.5mOhm @ 5A, 4.5V
Vgs (Max)	±12V	±20V	±10V	±10V
Drain to Source Voltage (Vdss)	20 V	30 V	20 V	20 V
FET Type	N-Channel	N-Channel	P-Channel	P-Channel
Drive Voltage (Max Rds On, Min Rds On)	1.8V, 4.5V	-	-	1.8V, 4.5V
Base Product Number	ECH8420	-	-	ECH8320
Supplier Device Package	8-ECH	SOT-28FL/ECH8	SOT-28FL/ECH8	8-ECH
Package / Case	8-SMD, Flat Lead	8-SMD, Flat Lead	8-SMD, Flat Lead	8-SMD, Flat Lead
Package	Tape & Reel (TR)	Bulk	Bulk	Tape & Reel (TR)
Operating Temperature	150°C (TJ)	150°C	150°C	150°C (TJ)
FET Feature	-	-	-	-
Vgs(th) (Max) @ Id	-	2.6V @ 1mA	1.3V @ 1mA	-
Input Capacitance (Ciss) (Max) @ Vds	2430 pF @ 10 V	1700 pF @ 10 V	2300 pF @ 10 V	2300 pF @ 10 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Power Dissipation (Max)	1.6W (Ta)	1.6W (Ta)	1.6W (Ta)	1.6W (Ta)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Continuous Drain (Id) @ 25°C	14A (Ta)	12A (Ta)	9.5A (Ta)	9.5A (Ta)

### ECH8420-TL-H Datasheet PDF

Download ECH8420-TL-H pdf datasheets and onsemi documentation for ECH8420-TL-H - onsemi.







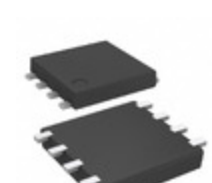











#### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf

### Customers Also Interested in

#### Recommended Products

 <b>ECH8601</b> AMI Semiconductor/onsemi	 <b>ECH8601M-P-TL-H</b> onsemi MOSFET 2N-CH ECH8	 <b>ECH8601M-C-TL-H</b> onsemi MOSFET 2N-CH 24V 8A ECH8	 <b>ECH8410-TL-H</b> Sanyo MOSFET N-CH 30V 12A SOT28FL/ECH8	 <b>ECH8411 MOS</b> AMI Semiconductor/onsemi	 <b>ECH8601M-C</b> AMI Semiconductor/onsemi
 <b>ECH8502-TL-H</b> onsemi TRANS NPN/PNP 100V/50V 5A 8ECH	 <b>ECH8401-TL-E</b> AMI Semiconductor/onsemi	 <b>ECH8320-TL-H</b> Fairchild Semiconductor MOSFET P-CH 20V 9.5A SOT28FL	 <b>ECH8320-TL-H</b> onsemi MOSFET P-CH 20V 9.5A 8ECH	 <b>ECH8601M-TL</b> AMI Semiconductor/onsemi	 <b>ECH8310-TL-H</b> onsemi MOSFET P-CH 30V 9A 8ECH
 <b>ECH8402-TL-E</b> onsemi MOSFET N-CH 30V 10A 8ECH	 <b>ECH8601M-TL-H</b> onsemi MOSFET N-CH 24V 8A ECH8	 <b>ECH8311-TL-H</b> onsemi PCH 2.5V DRIVE SERIES	 <b>ECH8601-TL-E</b> AMI Semiconductor/onsemi	 <b>ECH8315-TL-H</b> onsemi MOSFET P-CH 30V 7.5A 8ECH	 <b>ECH8601-TL</b> AMI Semiconductor/onsemi

## 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 -


  
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Fast Sourcing & Delivery

**Contact us if you have any questions.**

  
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### Certifications & Memberships








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