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See specifications for product details.



MCP1640CT-I/MC

Manufacturer Part Number **MCP1640CT-I/MC**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-MCP1640CT-I/MC**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC REG BOOST ADJ 350MA 8DFN**

Package **8-VDFDN Exposed Pad**

Data sheet **[MCP1640 Single Quad-A Battery Boost Conv Ref Desig.pdf](#)**

[MCP1640\(B,C,D\) Datasheet.pdf](#)

RoHs Status **ROHS3 Compliant**

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MCP1640CT-I/MC - Microchip Technology. New Original in Stock. Download Linear Technology MCP1640CT-I/MC datasheet/specifications on AllelcoElec.com.
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Specifications

MCP1640CT-I/MC Tech Specifications

MCP1640CT-I/MC - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Package	Tape & Reel (TR)
Voltage - Output (Min/Fixed)	2V	Output Type	Adjustable
Voltage - Output (Max)	5.5V	Output Configuration	Positive
Voltage - Input (Min)	0.8V	Operating Temperature	-40°C ~ 125°C (TJ)
Voltage - Input (Max)	5.5V	Number of Outputs	1
Topology	Boost	Mounting Type	Surface Mount
Synchronous Rectifier	Yes	Function	Step-Up
Supplier Device Package	8-DFN (2x3)	Frequency - Switching	500kHz
Series	-	Current - Output	350mA
Package / Case	8-VDFDN Exposed Pad	Base Product Number	MCP1640

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology MCP1640CT-I/MC

Product Attribute				
Part Number	MCP1640CT-I/MC	MCP1640BT-I/MC	MCP16413-I/JN	MCP1640BT-I/CHY
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Number of Outputs	1	1	1	1
Series	-	-	-	-
Current - Output	350mA	350mA	600mA	350mA
Frequency - Switching	500kHz	500kHz	500kHz	500kHz
Operating Temperature	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)	-40°C ~ 125°C (TJ)
Base Product Number	MCP1640	MCP1640	MCP16413	MCP1640
Voltage - Output (Max)	5.5V	5.5V	5.25V	5.5V
Topology	Boost	Boost	Boost	Boost
Synchronous Rectifier	Yes	Yes	Yes	Yes
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Input (Min)	0.8V	0.8V	0.82V	0.8V
Package / Case	8-VDFDN Exposed Pad	8-VDFDN Exposed Pad	10-TFSOP, 10-MSOP (0.118", 3.00mm Width)	SOT-23-6
Output Configuration	Positive	Positive	Positive	Positive
Output Type	Adjustable	Adjustable	Adjustable	Adjustable
Supplier Device Package	8-DFN (2x3)	8-DFN (2x3)	10-MSOP	SOT-23-6
Voltage - Output (Min/Fixed)	2V	2V	1.8V	2V
Voltage - Input (Max)	5.5V	5.5V	5.25V	5.5V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tube	Tape & Reel (TR)
Function	Step-Up	Step-Up	Step-Up	Step-Up

MCP1640CT-I/MC Datasheet PDF

Download MCP1640CT-I/MC pdf datasheets and Microchip Technology documentation for MCP1640CT-I/MC - Microchip Technology.

Datasheets

- [MCP1640 Single Quad-A Battery Boost Conv Ref Desig.pdf](#)
- [MCP1640\(B,C,D\) Datasheet.pdf](#)

PCN Packaging

- [Label and Packing Changes 23/Sep/2015.pdf](#)
- [Packing Changes 10/Oct/2016.pdf](#)

PCN Design/Specification

- [MCP1640 Single Quad-A Battery Boost Conv Ref Desig.pdf](#)

Design Resources

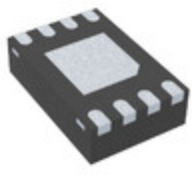


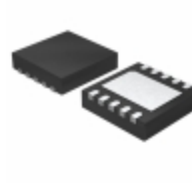

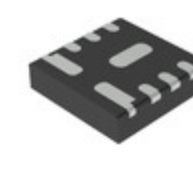

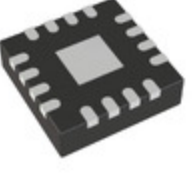
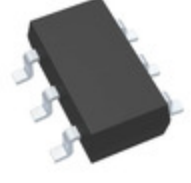
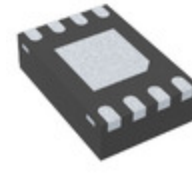

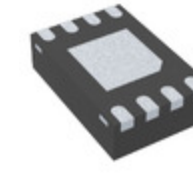
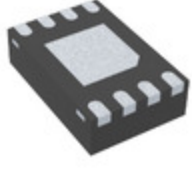


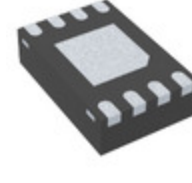
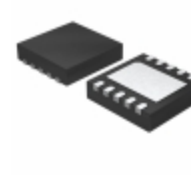
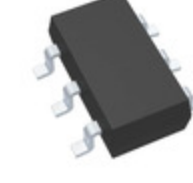
Portable Power Conversion Design Guide.pdf

Other Related Documents

Development Tools Catalog.pdf

Customers Also Interested in

Recommended Products

 MCP1640BT-I/MC Microchip Technology IC REG BOOST ADJ 350MA 8DFN	 MCP16413-I/UN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP1640BT-I/CHY Microchip Technology IC REG BOOST ADJ 350MA SOT23-6	 MCP16414T-I/MN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP16414-I/UN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP16361T-E/NMX Microchip Technology IC BUCK CONVERTER 48V 2MHZ
 MCP16414T-I/UN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP1633T-E/MG Microchip Technology HIGH SPEED PWM CONTROLLER W/ DIM	 MCP1640DT-I/CHY Microchip Technology IC REG BOOST ADJ 350MA SOT23-6	 MCP1640C-I/MC Microchip Technology IC REG BOOST ADJ 350MA 8DFN	 MCP16331T-E/CH Microchip Technology IC REG BUCK ADJ 500MA SOT23-6	 MCP1640-I/MC Microchip Technology IC REG BOOST ADJ 350MA 8DFN
 MCP1640B-I/MC Microchip Technology IC REG BOOST ADJ 350MA 8DFN	 MCP1640CT-I/CHY Microchip Technology IC REG BOOST ADJ 350MA SOT23-6	 MCP16413T-I/UN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP1640T-I/MC Microchip Technology IC REG BOOST ADJ 350MA 8DFN	 MCP16414-I/MN Microchip Technology IC LOW PWR BOOST CONVERTER	 MCP1640T-I/CHY Microchip Technology IC REG BOOST ADJ 350MA SOT23-6

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 Alleco 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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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

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