In-Vehicle USB Charger for BC 1.2 Profile

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Off-the-shelf USB battery chargers deliver 5V and 1.5A for multiple in-vehicle locations and save in tooling and engineering costs

USB BC 1.2 Charger

Features and Benefits

Pre-assembled active USB charger with PCB routing and mechanical enclosure design	Saves costs in engineering time and tooling. Ensures fast delivery time
Compliant with Battery Charging (BC) 1.2 standards	Charges up to 5V DC / 1.5A (with compliant BC 1.2 devices)
Designed for existing rocker-switch panels for commercial vehicles	Facilitates drop-in design
Compatible Molex automotive I/O connector offering	Provides a single-system supplier for added reliability. Reduces overall cost
Compact, single-charger design	Enables charging-port integration throughout the vehicle
Electrical, mechanical, environmental, electromagnetic interference (EMI), electrostatic discharge (ESD) and signal integrity testing completed	Saves end user time and money with full turn-key testing and product validation
Power-supply architecture adaptable to existing application requirements	Ensures compatibility with most in-vehicle 12V power distribution architechtures
Complete global material sourcing, logistics and manufacturing solution including: surface-mount or through-hole PCB assembly; final assembly and testing; PPAP (Production Parts Approval Process)	Offers seamless product introduction from one supplier, providing testing, mass manufacturing and stocking customers' supply chain requirements

Applications

Commercial Vehicle

- Trucks
- Agriculture
- Bus
- RVs
- Military Vehicles
- Boat/Marine
- Airplane
- Construction

Automotive

- Cell Phone/Smartphone Charging

Trucks

Cell phone/smart phone charging

Agriculture

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Specifications

REFERENCE INFORMATION
Packaging: Individual
Mates With: Micro-Fit 3.0™ Receptacle (Series No. 43645) and Micro-Fit 3.0™ Female Crimp (Series 43030, 45773)
Use With:
USB A Type Connector
Designed In: Millimeters
RoHS: Y
Halogen Free: Y
Glow Wire Compliant: No

ELECTRICAL
Voltage (max.): 16V DC
Input: 9 to 16V DC
Output (max.): 5V DC +/-5% 1.0A
Backlight: Blue LED, 12V DC

MECHANICAL
Mating cycles: 5,000

PHYSICAL
Housing: Polycarbonate/Acrylonitrile Butadiene Styrene (PC+ABS), Black
Dimensions (mm): 48.00 H x 26.00 W x 37.05 D
Operating Temperature:
-40 to +85ºC (automotive grade)

Ordering Information

Series No.	Product Description
79540-5015	In-Vehicle Single USB Charger with Backlight 1.5A

www.molex.com/link/invehiclesmartcharging.html

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