Molex USB Circular Smart Charge Modules combine automotive-grade durability with off-the-shelf availability for virtually any vehicle through a ubiquitous, widely-accepted interface.

**Features and Advantages**

- **Supports Common Charging Profiles**
  - USB Battery Charging Specification BC1.2 compliant
  - YD/T 1591-2009 (China Telecom Specification)
  - Apple MFI compliant
  - 1.2V mode

- **Specialized Electrical Performance**
  - 9-16V supply
  - 2.4A type A charging
  - 3.0A type C charging
  - Operating Temperature: -40 to 85°C
  - Smart Thermal Management

- **Mechanical Fortitude**
  - Circular design fits into USCAR standard cigarette lighter cutout
  - Over-voltage, reverse-battery and over-current protection
  - ESD and short-circuit protection
  - Automotive-grade USB connectors on the front = 10K cycle life
  - Molex Mini50 on the rear provides a quality connection interface

**Applications**

- **Commercial Vehicle**
  - Construction equipment
  - Farm equipment
  - Trains
  - Airplanes

- **Automotive**
  - Cars
  - Pickup trucks
  - SUVs
# USB Circular Smart Charge Modules

## Specifications

### REFERENCE INFORMATION
- **Packaging:** Individual
- **Mates With:** Mini50 Receptacle (347910040)
- **Use With:**
  - USB A & C Type Connectors
- **Designed In:** Millimeters
- **RoHS:** Yes (with exemption)
- **Halogen Free:** No
- **Glow Wire Compliant:** No

### ELECTRICAL
- **Voltage (max.):** 16V DC
- **Input:** 9 to 16V DC
- **Backlight:** None
- **Charging Output (max):**
  - 2.4A for type A port
  - 3.0A for type C port

### MECHANICAL
- **Mating Cycles:** 10,000

### PHYSICAL
- **Housing:** Polycarbonate/Acrylonitrile Butadiene Styrene (PC+ABS), Black
- **Dimensions:**
  - 27.8mm diameter (body)
  - 34.2mm diameter (face)
  - 67mm (length)
- **Operating Temperature:**
  - -40 to +85ºC (automotive grade)

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Note: Molex reserves the right to delay or cancel production of the depicted product without additional notice. Please contact your Molex customer service representative for product availability.

www.molex.com/link/invehiclesmartcharging.html

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