

# 48V Circuit Breaker

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# 48V Circuit Breaker

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## VISHAY COMPONENTS USED:

- o Aluminum Capacitors
  - o MLCC
  - o Inductors
  - o Custom Magnetics
  - o MOSFETS
  - o Diodes
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## Application Overview

In order to remain 12V battery load while 48V battery line will be used in vehicle. 48V-12V DC-DC converter can bring down 48V-12V, so the converter is major application for future cars, for all topologies Vishay offer you a broad portfolio of solutions. With standard devices like MOSFETS, Diodes, Shunt Resistors, TVS, Capacitors and Inductors as well as with customized magnetic solutions. And also can offer coupled inductor depend on some special topologies.

## 48V Circuit Breaker : 48V Circuit Breaker, EMI Filter

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### Aluminium Capacitor

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">260 CLA-V</a>		Alumimum Capacitor SMD vibration proof high temperatur	150...3300uF; 16V...80V	16x16x16 to 18x18x21	AEC Q200

### Custom Magnetics

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">customized EMI filter</a>		customized EMI filter			

### Inductor

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">IHLP-6767GZ-5A</a>		Low Profile, High Current, High Transient Current Spike Cabable Shielded, Low DCR	0,22uH...47uH, Idc=65A...7.25A	6767	AEC Q200

### MLCC

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VJ...31X RoHS Automotive MLCC</a>		Surface Mount Multilayer Ceramic Chip Capacitors for Automotive Applications	120pF...1uF; 16V...1000V	0402 to 1812	AEC Q200

## 48V Circuit Breaker : 48V Circuit Breaker, Reverse Polarity Protection

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### MOSFET

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">SQJQ410EL</a>		N-Channel 100-V (D-S) 175°C MOSFET	Rdson=3.4mOhm	PPAK 8x8L	AEC Q101

## 48V Circuit Breaker : 48V Circuit Breaker, Security Switch

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### MOSFET

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">SQJQ410EL</a>		N-Channel 100-V (D-S) 175°C MOSFET	Rdson=3.4mOhm	PPAK 8x8L	AEC Q101
<a href="#">SQJQ480E</a>		N-Channel 80-V (D-S) 175°C MOSFET	Rdson=3.4mOhm	PPAK 8x8L	AEC Q101

## 48V Circuit Breaker : 48V Circuit Breaker, Transient Protection

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### TVS Diode

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">1.5 SMC Series</a>		surface mounteTransZorb Transient Voltage Suppressor	1500W	SMCJ	AEC Q101
<a href="#">SMAJ78CA</a>		surface mounteTransZorb Transient Voltage Suppressor	400W,300W	SMAJ	AEC Q101