imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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12V-PARTS.COM

Supplying a Comprehensive Assortment of 12V Parts



We offer standard and custom 12 volt parts including plugs, sockets, cable sets, and fuse holders. All of our products are available standard in amperages from milliamps up to 20 amp. If your company needs parts with a higher amperage rating, we can custom manufacture those as well.

Our plugs are available in the color of your choice, with or without a red or green LED. Parts are manufactured to fit any make of automobile including those from Europe, America and Asia. They are made of the finest materials having undergone extreme durability testing including dragging and crushing. The thick and rugged plastic is engineered to withstand the worst abuse.

Equally as tough, our sockets are precisely sized to make an easy, yet snug, connection every time. Weather-resistant and marine versions are available for the harshest conditions. We also carry an assortment of safety cover accessories.

If your company needs a custom cord set, we offer a complete line of wire and connector options. Our coiled or straight cables can be made to a specified wire gauge and can include inline reset-able fuses and EMI shield coils. For cable assemblies we have twenty one plugs for every price point available and a complete line of connector options for the other end as well. If we don't stock the connector you need, we can manufacture it to your specifications. And, we can even do splits in the cable if needed!

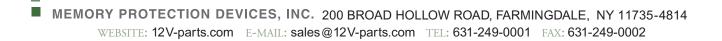
We also carry blade and inline fuse holders, as well as, fuse clips. They are PC-mountable and have low-profiles, so they are ready to be integrated into your project. All of our parts are made to the same strict quality standards, so you can be assured that your customers' safety is guaranteed when using our fuse holders.

Because we produce parts in high volumes, we can pass on the best prices and great service. In addition, for custom parts we can suggest design or manufacturability improvements to aid reliability and reduce costs. We have ISO 9001 certification, a sign of the commitment we have made to demand high quality as much as our customers do.

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MPD

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Auto Antenna Plugs & Sockets
Auto Cigarette Sockets
Automotive Fuse Clips
Automotive Fuse Holders



Automotive 12V Technology

In today's world, a wide array of automotive 12 volt plug-in cord sets, 12v-plugs and 12v-sockets are presented to designers of electronic systems and products. Some are hardly up to the challenges presented by the everincreasing multitude of electronic devices like cell phones, iPods and portable navigation devices that have become as commonplace as tires on a vehicle.

Market Outlook: Automotive 12 volt cord sets are normally made with twin copper wires and in lengths typically from three to fifteen feet. Some use heavy gage copper wire in longer lengths and are greatly affected by changes in copper's pricing. Long lengths of heavy gage wires sometimes suffer twice because of higher freight costs with rising petroleum and labor costs.

Vibration. Heat. Shock. Humidity. Corrosion. Pressure. These real-world conditions cause device failures and higher support costs for suppliers. Without a reliable and continuous supply of current, an electronic device's operation will be interrupted and the system might be damaged. Repeated, forceful insertions and removals by consumers could cause stress fractures of plastic or metal components and wires.

Automotive plug-in cord set designs are traditionally full of trade-offs: size and weight constraints versus durability, ease of insertion and removal versus ability to retain the plug under rigorous conditions, and durability of materials versus component cost, to name a few. The increasing demand for ruggedness of portable devices has made the balancing act of 12v-plug design even trickier.

Retention: An automotive 12v-plug needs to be able to retain itself into the socket even under significant vibration, shock, and torque. Failure to properly hold the connection, even for a matter of microseconds, can result in an interruption of power and device malfunction. A well-designed 12v-plug will resist shock and vibration, while remaining easy to remove without tools.

Durability: Depending on the use, a device could have its 12v-plug inserted hundreds or even thousands of times throughout its lifespan. Because of the retention issues described above, an automotive plug must hold its connection securely. However, this results in extra wear upon the contacts as the same high grip which secured the 12v-plug causes increased wear under the stresses of removal and insertion. Thus, it is important to insure that 12v-plug materials be durable enough to withstand stresses that could cause dangerous fractures.

Corrosion Resistance: When components are exposed to humidity, airborne pollutants, extreme temperatures, and other environmental conditions, corrosion can result. Over time, this corrosive build-up can cause loss of electrical contact. The use of corrosion resistant contacts is particularly necessary for portable devices, where protection from the elements cannot be guaranteed.

Contact Conductivity: The choice of metals in 12v-plug sets determine how easily electricity will flow from the automobile to the device. Some types of platings are subject to oxidation and thus the resulting increase in electrical resistance. More conductive metals that resist oxidation, such as gold, allow high conductivity, meaning lower resistance, which allows for slightly quicker charging during short trips.

Fuses: A safety item that every automotive cord set should have but frequently do not. Many assume that the current in automobiles is not subject to voltage changes. An automobiles electrical system can have very high voltage spikes, for instance when the starter stops a minus 200 volt spike can occur, and large positive spikes can also occur. The battery does a good job as a filter because it acts like a large capacitor to absorb these spikes, but a fuse is an inexpensive insurance, especially in a product having worldwide distribution and use.



MEMORY PROTECTION DEVICES, INC. 200 BROAD HOLLOW ROAD, FARMINGDALE, NY 11735-4814 WEBSITE: 12V-parts.com E-MAIL: sales@12V-parts.com TEL: 631-249-0001 FAX: 631-249-0002

MPL



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12V Coiled Cord Sets

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12V Extension Assemblies

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Auto Cigarette Plugs



APP-001-10 amp

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APP-001-20 amp

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Vibration-Resistant Assembly

Weather resistant



Auto Cigarette Plugs		
AP-104-NT	"ZA1094-NT" 12V plug, transformer, empty case	
AP-120	Cigarette plug, adjustable head, on-off switch, green LED, 5 amp fuse	
AP-121	Cigarette plug, weather-vibration resistant, twist & lock, green LED, 3 amp	
AP-124	Cigarette plug, 5 amp fuse, high impact body	
AP-129	12V auto plug, European style, CE listed	
AP-130	12V auto plug, led, switch and fuse, CE listed	
AP-131	12V auto plug, mini style with fuse, CE listed	
AP-132	12V auto plug, adapter to aircraft plug	
AP-125	12V auto plug, car battery analyzer	
AP-133	12V auto plug, with USB outlet	
APP-001	Black auto cigarette plug, red LED, 3 amp fuse	
APP-001-10AMP	same as APP-001 but with 10 amp fuse	
APP-001-15AMP	same as APP-001 but with 15 amp fuse	
APP-001-20AMP	same as APP-001 but with 20 amp fuse	
APP-002	Gray auto cigarette plug, red LED, 3 amp fuse	
APP-003	Black auto cigarette plug, no LED, 3 amp fuse	
APP-004	Gray auto cigarette plug, no LED, 3 amp fuse	
ZA1010	Cigarette plug, bakelite with 3 amp fuse	
ZA1030	Cigarette plug, bakelite	
ZA1060	Cigarette plug, plastic	
ZA1080	Cigarette plug, plastic with thumb grips	
ZA1090	Cigarette plug, illuminated body, 3 amp fuse	
ZA1091	Cigarette plug, Bakelite with 3 amp fuse	
ZA1093	Cigarette plug, Bakelite with 3 amp fuse and dual contacts	











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MPD

2AG and 5mm Fuse Clips



Low-profile, snap-in design, PC retention for wave soldering, available with legs for critical alignment during PC installation, available with or without stops. Rated 6.3 to 30 Amps.

3AG (.250") Fuse Clips and PC Fuse Holders





BK-6003



BK-6007



BK-6004 w. 3AG Fuse

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Low-profile, snap-in design, PC retention for wave soldering, available with legs for critical alignment during PC installation, available with or without stops. Rated 6.3 to 30 Amps.

PC Automotive Blade Fuse Clips



Low-profile, snap-in design, PC retention for wave soldering, available with legs for critical alignment during PC installation, available with or without stops. Rated 6.3 to 30 Amps.

15 Amp PC Automotive Blade Fuse Holders



BK-6010



Thru hole PC mountable, maintains position during wave soldering. Holder design prevents solder wicking. Shock and vibration resistant. Durable grip, even after multiple uses.





Fuse Clips and Fuse Holderss

BF301	In-line fuse holder, add your own 6.35 x 30mm fuses
BF302	In-line fuse holder, add your own 5 x 20mm fuses
BK-6001	Snap-in 3AG, PC clip for 1/4" diameter fuse
BK-6002	Snap-in 2AG, PC clip for 5 mm diameter fuse
BK-6003	Traditional 3AG, PC clip for 1/4" diameter fuse
BK-6004	3AG, PC fuse holder
BK-6005	Traditional 2AG, PC clip for 5 mm diameter fuse
BK-6006	Auto fuse clip for .205" x .025" standard blade fuses
BK-6007	Traditional 3AG, PC clip for 1/4" diameter fuse
BK-6008	Auto fuse clip for .110 x .032 mini blade fuses
BK-6009	PC clip for 5mm diameter fuse
BK-6010	Auto fuse holder for .205 x .025 standard blade fuses
BK-6011	Auto fuse vertical holder for .10" x .032" mini vertical blade
BK-6012	Auto fuse clip for .205" x .025" standard blade fuses
BK-6013	Auto fuse holder for .110" x" 032" mini blade fuses

PCB Fuse Clips and Holders

MPD consistently delivers superior quality fuse clips and holders carefully engineered to meet the strictest electronic application requirements. Our safety components are known for their reliability and are designed to meet the ever increasing needs of a wide range of industrial and consumer product applications where circuit protection is essential to the delivery of uninterrupted power.

As a recognized industry leader in the manufacture of circuit protection, MPD carries an elaborate line of 2A and 5mm fuse clips, 3AG fuse clips and fuse holders, PC blade fuse clips, 15 Amp PC automotive blade fuse holders, and inline fuse holders. We also offer a variety of mounting configurations.

Our clips are manufactured from brass and tin plated to assure low contact resistance, and superior shelf life. They are engineered to mount easily and retain a stable position during wave soldering. Our low profile space saving clips also feature orientation tabs and end stops to insure safety and design integrity.

Special finishes can be requested as a custom order. Call MPD's engineering services to special order fuse clips and holders that are not standard sizes. Our engineers can design parts to meet your exact specifications.