



ESSENTRA

COMPONENTS



PCB
DESIGNERS
APPLICATION
GUIDE

CIRCUIT BOARD HARDWARE

KEEPING PCBs OPERATIONAL
FOR LONGER

www.essentracomponents.com

ESSENTIAL SOLUTIONS

DELIVERED

KEY APPLICATIONS



Your final product is only as good as the components you use.

Whatever your design requirements, our extensive range can help. Whether it's high conductivity or resistance to corrosion, our high-quality solutions are available in a range of materials and mounting types. We can also help with free samples and CAD downloads to make your selection process even easier.

CONSUMER ELECTRONICS

TELEVISIONS | COMPUTERS | MOBILE PHONES



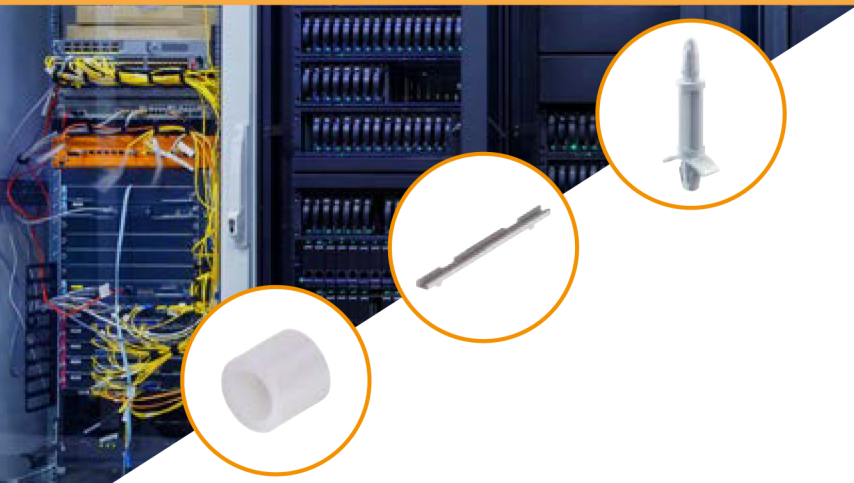
Whether insulation or conductivity is required, you can enhance functionality and protect your design.

Ensure design quality with:

- **Hex spacer** – made of Nylon to protect against corrosion. Robust and secure, they are ideal for electronics regularly moved around
- **LED mount** – easily snapped into standard panel holes by hand. The LED will lock into place when inserted from the rear of the panel to provide a secure and attractive display
- **Reverse mounted circuit board support** – acts as an insulator to avoid short circuits. Low protrusion saves space while large diameter supporting foot provides extra strength

ELECTRICAL CABINETS

DATA CABINETS | TELECOMS | RACK CABINETS



Versatile solutions when space and accessibility is essential.

Build functional products with:

- **Dual locking circuit board support** – one-piece moulded construction for high strength with unique snap locking for a secure fix
- **Horizontal card guide** – ideal for tight spaces, with two tapered ends for quick and easy insertion while providing a neat, finished appearance
- **Spacer** – cost-effective alternative to metal. Absorbs shock and vibration, and available in a wide range of sizes to cover most diameters

WHITE GOODS

WASHING MACHINES | FRIDGES | OVENS



A wide range of solutions designed to meet your specific requirements for performance and heat stability.

Enhance the life of your design with:

- **Push Spacers** – holds heavily loaded PC Boards. No through hole required.
- **Blind hole mount circuit board support** – easy to apply by hand, the fir tree mount is perfect for applications with different hole sizes
- **Elastomer Fan Mounts** – offers a simpler, faster installation method than conventional screw mounts. Provide shock and vibration protection.



REQUEST
CAD



REQUEST
SAMPLE



FIND OUT MORE
800 847 0486

OFFICE MACHINERY

PRINTERS | LAPTOPS | PROJECTORS



Prevent malfunctions in applications that are in constant use with a wide range of industrial strength solutions

Ensure consistent performance with:

- **Spacer Nuts** – legs expand as screw is installed eliminating the need for a nut. Good for blind installation
- **LED spacer** – provide height control and lead wire retention and stability. Self-retaining feature for auto insertion and pre-assembly
- **Hex threaded standoff** – locks circuit boards in place. Features high torque locking and grounding features and can be secured using a nylon hex nut

CHOOSING THE RIGHT SPACER SOLUTION

1 KNOW YOUR APPLICATION

- **PCB substrate** – Fibreglass PCBs deliver strength and flexibility so it's best to use a snap in or snap fit spacer. Paperboard PCBs are more rigid and can fracture. Use a push spacer to give support without penetrating the PCB, even when there is no mounting point.
- **Space limitations** – If stacking multiple PCBs, then use an active element such as a wing or arrowhead, particularly when using boards with lower weight tolerances.

2 CONSIDER THE MATERIAL

Plastic: Nylon, PVC, Acetal and PEEK®.

Key benefits:

- Resistance to corrosive substances
- Cost effective for high volume manufacturing
- Lightweight
- Non-conductive, eliminating short-circuits

Key benefits:

- Electrical conductivity to maintain a circuit
- High tensile strength and impact resistance

3 WHICH MOUNTING TYPE?

- **Threaded** – held in position with the use of a nut to give a very secure fixing
- **Snap Lock** – pushes into a panel or chassis hole, giving a secure but easily releasable fix
- **Snap Fit** – quickly pushes into a panel or chassis hole
- **Press Fit/Blind Hole Spacer** – fins hold securely to a range of binding holes with a pointed style
- **Adhesive Base** – adhesive tape eliminates the need for a mounting hole

Questions? Speak to one of our experts for further information on the ideal solution for your application – **800 847 0486**

Learn more about PCBs with resources, guides and more on Essentra Components Knowledge Center. Visit <https://www.essentracomponents.com/en-us/news/solutions/pcb-and-electronics>



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