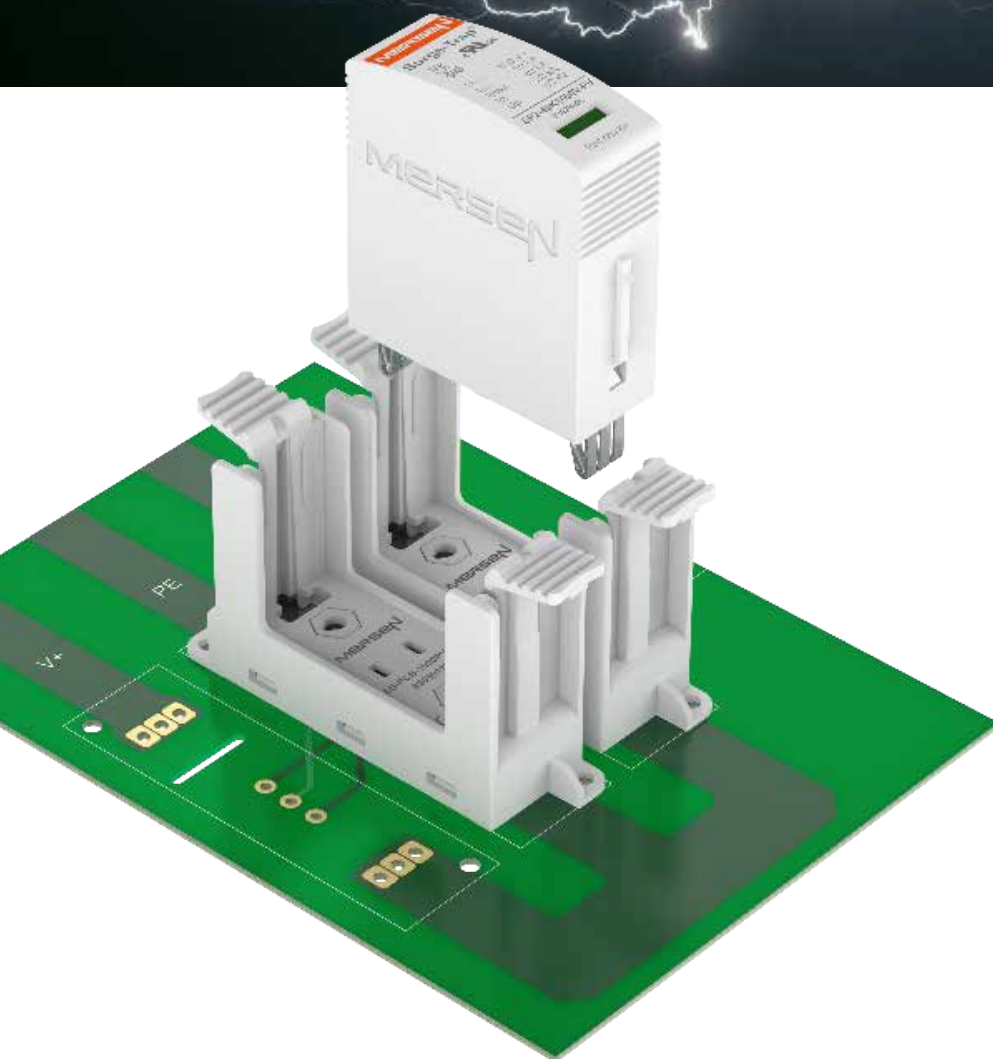


# PLUG-IN SURGE PROTECTION FOR PRINTED CIRCUIT BOARDS

POWER QUALITY

GLOBAL SPECIALIST IN SURGE PROTECTION



## INTEGRATION OF REPLACEABLE SURGE PROTECTION MODULES ON PCBs

### PCB SURGE SOCKETS

Integration of surge protection on printed circuit boards is often planned for at an early stage of development of the system.

Key benefits are cost efficiency, space efficiency, no wiring and optimal voltage protection of sensitive electronics.

The surge sockets will be firmly fixed to the PCB during the wave soldering process. They'll host the entire range of IEC-UL surge protection cartridges, AC & DC, T2 & T1.

This is an optimal solution for the industry of power electronics: inverters, converters, control panels for railway, PV combiner boxes, machines, etc.



Up to 1500 VDC



Single-pole sockets



T1 T2

T1 & T2 surge protection

## SINGLE-POLE SOCKETS

For all system configurations on PCBs

Also fault-resistant Y-circuits (PV or AC)

## UP TO 1500 VDC

Air clearance & creepage distances meet requirements of all applications (AC and DC)

## FIRMLY FIXED

Vibration-proof surge cartridges  
Easy cartridge replacement

## T1 & T2 SURGE PROTECTION

Mechanical forces of Type 1 & 2 discharges won't loosen the protection cartridges

## REMOTE INDICATION

Cartridge presence  
End-of-life

## MECHANICAL CODING

Safety system to avoid insertion of wrong voltage rated cartridge

## BENEFITS

### COST & SPACE EFFICIENCY

- No wiring, wave soldered surge protection
- Space saving solution

### OPTIMAL VOLTAGE PROTECTION LEVEL

- Integration at early stage of PCB development
- Close to sensitive electronics
  - No cable lengths