John G Peck Ltd - Military and Aerospace Overview





Profile and who we represent





- Specialist Distributor of Power Electronic Components
- Privately owned company formed in 1983
- Turnover £8 million (2021)
- 1000m² office, warehouse and test facility in Loughborough, UK
- 10 employees
- Wide product portfolio supporting all power electronics applications
- Customer base from global OEM's through to service and spares
- High level of UK support (Application technical sales stock logistics)
- ISO9001:2015 accredited







Power Semiconductors for Industrial, Military and Aerospace applications (Thyristor ● Diode ● Silicon Carbide ● Custom modules)



Electrolytic capacitors for Industrial, Aerospace, Defence, Rail and Medical applications (Tantalum • Ceramic • RF • Film • Aluminium)



Electrical protection, cooling, busbars and capacitors (Laminated busbars • Flexible busbars • Heatsinks • Liquid cooling plates • Fuses • Capacitors)



Current and Voltage sensors



Polyester and Polypropylene film Capacitors in axial, boxed or tag packages

Philosophy



Company Philosophy

To provide our customers a competitive, first class service in Power Electronics based products on behalf of the global manufacturers we represent.

JGPL focus on a small number of quality suppliers without conflict of product lines.

This strategy ensures full commitment of suppliers and enables us to forge strong relationships with both customers and manufacturers.

Our Service

Major companies such as Powerex and Mersen have entrusted the supply and support of their key OEM accounts to JGPL for many years.

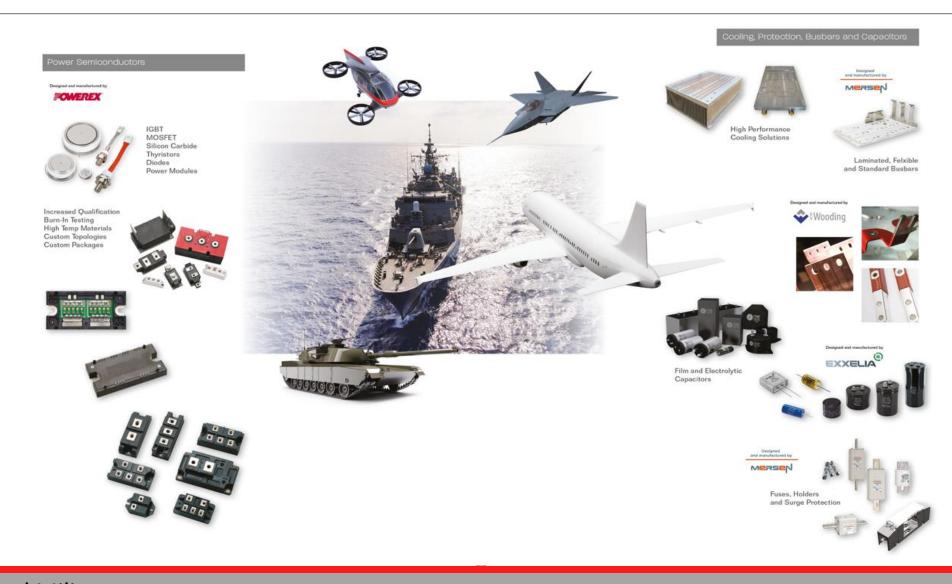
Full technical support is provided by our experienced engineering team and direct manufacturer support.

UK stock holding, bespoke packing or labelling, call off and just-in-time orders are services offered.

Volume purchasing combined with stock holding, keep overheads low, prices competitive and enable a flexible approach.

Applications for our products





Applications for our products



Film Capacitors



Applications for our products









Diodes

General Purpose Voltage: 100V to 6500V Current: 100A to 12,000A Fast Recovery

Voltage: 200V to 3600V Current: 125A to 1500A

Standard and fast switching types Stud and Capsule packages

Thyristors

Phase Control SCRs Voltage: 100V to 6500V Current: 40A to 5000A

Inverter Grade SCRs Voltage: 200V to 2000V Current: 40A to 2100A



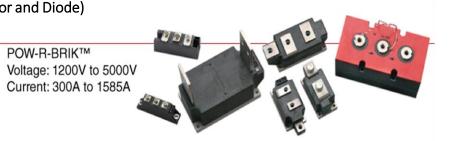
Power Modules (Thyristor and Diode)

POW-R-BLOK™

Voltage: 600V to 11,000V

POW-R-BRIK™

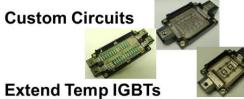
Current: 20A to 2500A



Silicon Carbide and Custom Power Modules

Chip Carrier (HV IGBT & FWD)







Custom modules, topologies and high reliability products

Military and Aviation modules

Access to Mitsubishi and other manufacturers chips

Silicon Carbide from multiple sources









Aluminum nitride (190W/mK)
 Alumina (35W/mK)















Modules-Both Custom and Industry Standard IGBT HVIGBT MOSFET







- Extended the temperature range
- Hermeticity/ Added moisture resistance
- Specialized circuit configurations
- Higher Blocking Voltage/ Higher Voltage isolation
- Special Packaging (Height, Length, Width, Weight)
- Integrated Heatsinks (liquid or air cool)
- Increased Junction Temperature
- Added Intelligence (sensors)

















Laminated Busbars









Flexible Battery Busbars with integrated sensors

DC link and Power connection Busbars

Circular Busbars

Fuses and Electrical Protection



DC fuses and EV protection relays



Capacitors



Film Capacitors



Electrolytic Capacitors

Established capacitor manufacturers, Fisher and Tausche (Germany) plus Leclanche (Switzerland), are now part of the MERSEN Group

Heatsinks and Cooling





High Performance Air Cooled





Liquid cooled heatsinks and cold plates



Heat Pipes











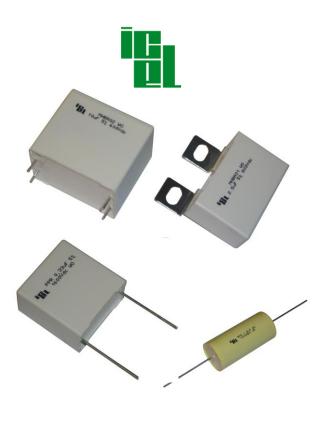












Electrolytic and Film Capacitors

Electrolytic and Film Capacitors

Snubber capacitors















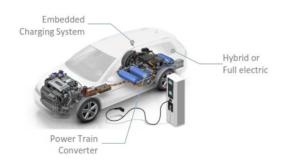
Airbus Group Bombardier Safran Collins Aerospace Leonardo Gulfstream Boeing Dassault Rolls Royce Lockheed Embraer Thales

Electric Vehicle

Renault Valeo **BMW** Continental VW Magneti Marelli Audi **BAE Electric Buses**







Lightweight

High-Reliability

No Obsolescence

High Energy density

Industrialization for High Volume series





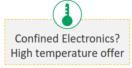












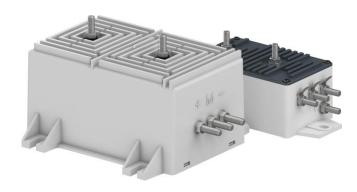






Current measurement Hall effect technology Closed Loop





Voltage Sensors



Current Sensors
Full Electronic Technology

Summary





John G Peck Ltd an independent and financially sound company with 37 years experience in Power Electronics.

Offers a wide range of quality products from leading global brands.

Offers technical support from a strong engineering team working closely with customers. Where necessary suppliers' application engineers can be called upon for added support.

Is highly focussed on service, fast response and logistic support backed by over £2 million of UK held buffer stock.

We have a flexible and pragmatic approach to supporting our customers' growth.

Contact us



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