



**YOUR GATEWAY TO CRITICAL ELECTRONICS**



## DELIVERING EXPERTISE FOR HI-REL ELECTRONICS

Power



Transistors, Diodes, Diodes Bridges, IGBT  
Modules  
Capacitors, Resistors

Protection



EMC Filters, TEMPEST Filters  
Lightning TVS, Varistors  
Thermistors, Active & Passive Cooling Solutions

High Voltage-RF



HT: Diodes, Optocopleurs, Power supplies  
RF: Capacitors, Inductances, Filters, Baluns,  
Antennas

Sensors

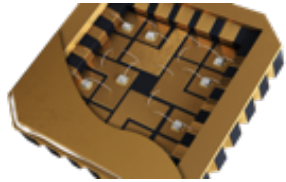


Pression, Vibration, Humidity, Temperature

Lighting



LED components  
LED rugged solutions (aero, defense)



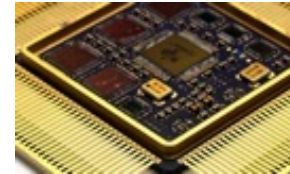
**Semiconductors**

Ceramic, Metal packages  
Multi-chip Arrays



**RF Power Mosfets**

Ultra-wide band 1Mhz to 1GHz  
Gain up to 20dB VHF, 16db UHF  
Wide power range 750mW to 400W



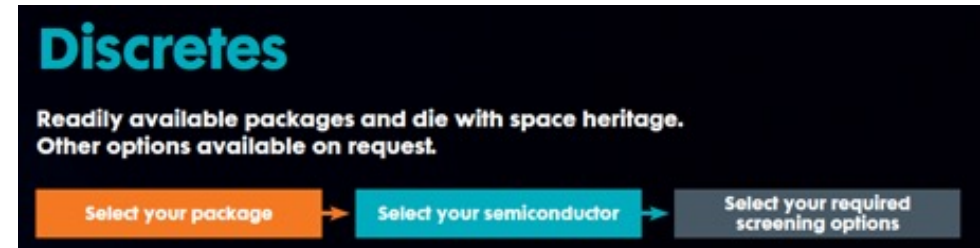
**Hybrid Microcircuits**

Screening to MIL-PRF-38534  
thermal management



**Power Modules**

Hermetic Power Modules  
Ruggedised Plastic Power Modules



**Technical Focus**

Screening Mil-Std-19500 – ESCC Spec - Customised  
Long Life / Obsolescence

Components and Sub-assemblies (EMI Filter, Transformer Unit, Transformer rectifier Unit)

**Quality**

Space Heritage since 1996  
Custom power supply design and manufacturing in UK

**Rail**



**Defense**



**Industry**



**Harnessing**



**Technical Focus**

From engineering to Inter-connect assembly  
 Harness design from Specification and Box Build Design and Build  
 In-house plating  
 MIL-C-26482 / EN45545-2 Connectors  
 Overmould cable assemblies

**Quality**

Heritage from AB Connectors  
 Custom design and manufacturing in UK

# CRITICAL SOLUTIONS, PRODUCTS LIST

- Bimetal Switch Wako.
- Capacitors Ceramic Johanson Dielectrics (Hirel\*)
- Capacitors Electrolytic, FT Cap Leclanché Capacitors
- Capacitor Films, FT Cap Leclanché
- Capacitor Feedthrough AC & DC , MPE (Hirel)
- Connectors, Sockets, Harnessing, Lotes
- Dies Bare, Semefab, Central-Semi
- Diodes High-Voltage, VMI (Hirel)
- Discrete Semi Conductors custom packaging, Semelab, Central Semi (Hirel)
- EMC / EMP Filters, MPE (Hirel)
- Fans & Cooling Solutions YS Tech
- Inductors, Talema, Easy-Magnet
- LED, Optosupply, Lumex.
- LED Lighting solutions, Aveo Engineering
- Opto-Couplers, Isolink-Skyworks. (Hirel)
- Opto-Couplers High Voltage, VMI (Hirel)
- Opto-Diodes High-Voltage, VMI (Hirel)
- Power Modules custom packaging, Semelab (Hirel)
- Power Supplies High Voltage, VMI (Hirel)
- RF products, Johanson Technology. (Hirel)
- RF Components (Pin diode, Schottky diode, limiter diode), Skyworks. (Hirel)
- RF Transistor custom packaging, Semelab (Hirel)
- Sensor, Varistor, TVT, NTC, PTC, PPTC, Thinking.
- Sensors (Pressure, Temperature, Humidity, Position and Piezo Accelerometer), Betatherm-MEAS-TE
- SELF, Transformer, Talema, Easy-Magnet
- Time Frequency Solution (TCX0-0CX0) GreenRay
- Transient Voltage Suppression Diodes Protek, (Hirel)
- Resistors Film, Caddock (Hirel)
- Resistors Wirewound/Ceramic/Film, Arcol.
- Shunt, Riedon
- Transistor NPN Fast Switching Semelab (Hirel)



\*Hirel: High Reliability Solutions for Defense, Aero and Space



## VISION 2023: SKY IS THE LIMIT



TECHNICAL EXPERT

CRITICAL AND CUSTOMIZED SOLUTION PROVIDER

FLEXIBLE LOGISTIC PARTNER

INNOVATION PROVIDERS





**YOUR GATEWAY TO CRITICAL ELECTRONICS**

