






Specialist components & intelligent support for harsh & high-end applications

Charcroft: Challenge Accepted

charcroft 50
ELECTRONICS

50 years of independant specialist support

www.charcroft.com

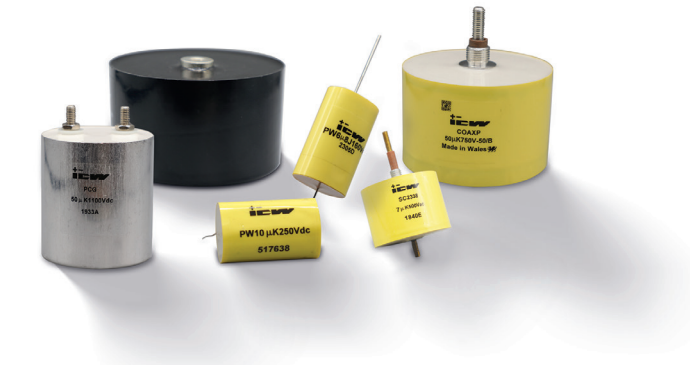
Passives, Power, Sensors, E-mech and more

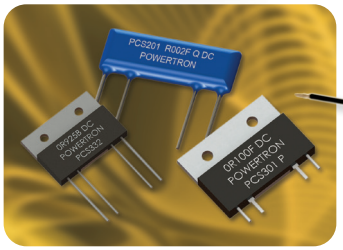
Charcroft Electronics

As an independent specialist distributor of components for harsh and high-end applications, Charcroft provides intelligence-led technical and commercial support to customers in the most demanding sectors.

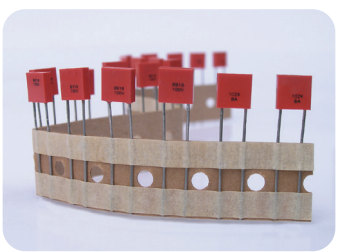
Intelligence-led specialist distribution

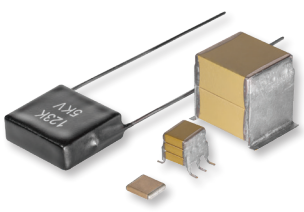
- Franchised by leading global and specialist manufacturers
- Exceptional knowledge of demanding applications
- Responsive to customers and open to innovation
- Expert support from field-based Product Specialists
  - Design-in, production, upgrades, legacy
- Simplifying procurement with intelligent quoting
- Custom IT and traceability systems
  - Export management including ITAR controls
  - Archiving all CofC & delivery notes
  - Library of legacy datasheets
- Key supplier to Defence OEMs for over 50 years













UK-based ISO9001: 2015 approved manufacturing facility

- **Film capacitor manufacture**
  - ClarityCap® polypropylene audio-capacitors manufactured in Wales, supplied worldwide to loudspeaker OEMs
  - Industrial PP/PET film capacitors for DC-LINK, filtering & resonant circuits; matched capacitors for railway signalling
  - Build to print or fully bespoke design, with a range of form-factors, termination and customisation options
- **VPG Approved Precision Centre**
  - 'Any value' Bulk Metal® & Z-foil resistors
  - Precision Express® shipping in under 5 days
  - Tolerance down to ±0.005%
  - Matched parts available (TCR +Tolerance)
  - Bridge-Completion-Module (BCM) matched Resistors
- **In-house custom value add services**
  - Custom solutions for harsh applications
  - Component customisation, labelling & printing
  - In-house component screening
  - Low-volume manual assembly
  - 'Can do' approach to customer requests
  - Liaison with third-party suppliers
- **Legacy passives**
  - Silver mica capacitors to 250°C: axial/radial to ±0.5pF
  - Foil resistors to ±0.005% tolerance
  - Radial ceramic capacitors to ±1% tolerance

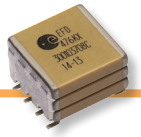


Quality Approvals

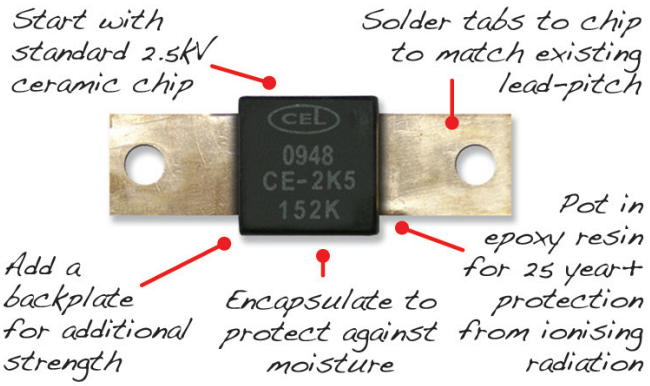
Charcroft Electronics have a specifically focused Quality Department to ensure we are adhering to the highest industry standards.

BS EN ISO 9001:2015	IECQ Distribution	BS EN ISO 9120:2018
FM29958	IECQ-P BSI 13.0010	FS683651

Capacitors



	Advance	Barker	Charcroft	Exxelia	ICW	Johanson	Kemet	Knowles	Ohmite	Quantic-UTC	Vishay
TECHNOLOGY											
Aluminium Electrolytic		✓		✓			✓				
Aluminium Polymer							✓				
Ceramic			✓	✓		✓	✓	✓		✓	
EDLC Supercap							✓		✓		
Film	✓		✓	✓	✓		✓				
Mica			✓	✓							
Polymer Tantalum				✓			✓				✓
Solid Tantalum				✓			✓				
Wet Tantalum				✓							✓
APPLICATIONS											
High Stability			✓	✓	✓		✓	✓			
High Temperature		✓		✓		✓	✓	✓		✓	✓
High Vibration		✓		✓			✓	✓			✓
High Voltage		✓	✓	✓		✓	✓	✓		✓	
RF/Hi-Q		✓		✓			✓	✓			
Safety Rated X/Y							✓	✓			



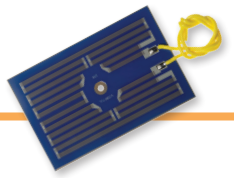


Magnetics, Filtering & RF



	AEM	Cambion	Dectron	Exxelia	Kemet	Knowles	Vishay
Coils & Windings		✓		✓			
Dielectric Resonators				✓			
EMC Filtering			✓	✓	✓	✓	
Feed-Through Filter				✓	✓		
Ferrite Beads	✓	✓		✓	✓		
Ferrite & Ceramic Materials				✓	✓		
Inductors		✓		✓	✓		✓
Planar/Discoidal Capacitors						✓	
Transformers		✓		✓			
Trimmer Capacitors				✓			
Tuning Elements				✓			

Resistors



	Charcroft	Exxelia	Ohmite	State of the Art	TT Electronics	Vishay	VPG
TECHNOLOGY							
Carbon/Ceramic Composition			✓		✓		
Foil	✓						✓
Metal Alloy					✓		
Networks/Divider		✓	✓		✓	✓	✓
Thick Film		✓	✓	✓	✓	✓	✓
Thin Film		✓	✓	✓	✓	✓	✓
Wirewound			✓		✓		✓
APPLICATION							
Current Sense			✓		✓	✓	✓
High Temperature		✓			✓	✓	✓
High Voltage		✓	✓	✓	✓	✓	✓
Power		✓	✓	✓	✓	✓	✓
Precision & Stability	✓	✓	✓	✓	✓	✓	✓
Surge/High Energy		✓	✓		✓		

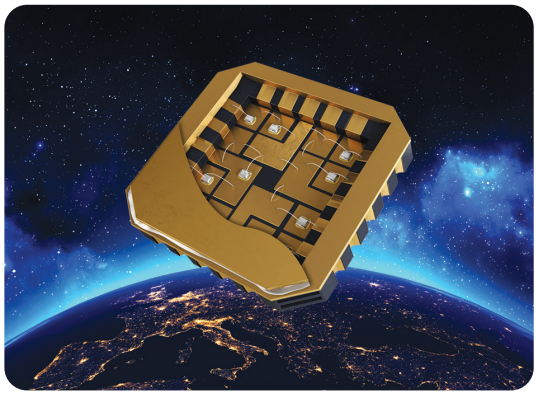
Power & Hi-Rel Semiconductors



	MTM	PULS
AC-DC	✓	✓
Battery Charger	✓	
DC-DC	✓	✓
EN50155	✓	✓
Inverters		✓
3-phase AC Input		✓



	Euroquartz	TT Electronics	X-REL
Control IC			✓
Crystals & Oscillators	✓		
Diodes		✓	✓
IGBTs		✓	
IGBT Power Module		✓	
Multi-Chip Array		✓	
MOSFETs		✓	✓
Transistors		✓	✓



Circuit Protection, Thermal and Sensors

	AEM	Cambion	Comair Rotron	E-Switch	Exxelia	Fredericks	Kemet	Ohmite	Sensata	Sonitron	TT Electronics	Vishay	VPG
CIRCUIT PROTECTION													
Aircraft/MIL Breakers									✓				
Hydraulic Magnetic									✓				
Fuses	✓												
Thermal Circuit Breakers									✓				
THERMAL													
Heatsinks								✓					
Fans, Blowers & Impellers			✓										
Thermal Cut Outs							✓		✓				
Thermostats & Probes									✓				
SENSORS													
Load-Cells													✓
Position Sensors					✓				✓		✓	✓	
Pressure Sensors									✓		✓		
Pressure Switches									✓				
Strain-Gauges													✓
Temperature Sensors								✓	✓		✓		
Tilt Sensors						✓							
OTHER													
Component Up-Screening	✓												
Contactors									✓				
Optoelectronics & Hall Effect											✓		
PCB Hardware & Interconnect		✓						✓					
Piezo Actuators							✓						
Pots, Trimmers & Rheostats								✓			✓	✓	✓
Relays							✓		✓				
Sounders										✓			
Solid State Relays									✓				
Switches				✓					✓				
Tin Whisker Mitigation	✓												

Approvals

	AEM	Barker	Exxelia	Johanson	Kemet
Capacitors		MIL	CECC/MIL SPACE	MIL	MIL/AEC-Q UL/SPACE
Fuses & Ferrite Beads	MIL/SPACE				
Resistors			MIL/SPACE		

	Knowles	Ohmite	Sensata	State of the Art	TT Electronics	Union Tech	Vishay	VPG
Capacitors	CECC/AEC-Q TÜV/UL					MIL	CECC/MIL	
Circuit Breakers			MIL/UL/VDE					
Opto & Hall Effect					MIL/UL/VDE/ ATEX/IECEx			
Resistors		MIL		MIL	CECC/MIL UL/AEC-Q		UL	CECC/MIL SPACE
Thermostats			MIL/UL SPACE					

Franchises

Bringing together a mix of global leaders and specialist manufacturers, Charcroft's product range is focused on rugged components for harsh and high-end applications

KEMET (a YAGEO company)
- Arcotronics
- BHC Components
- Evox Rifa
- Sierra-KD
- Tokin

Sensata Technologies
- Airpax
- BEI Sensors
- Crydom
- Gigavac
- Kavlico
- Klixon

TT Electronics
- BI Technologies
- IRC
- Optek
- Roxspur
- Semelab
- Welwyn

VPG
- Alpha Electronics
- APR
- Micro-Measurements
- Powertron
- VFR
- VPG Foil Resistors
- VPG Force Sensors

Charcroft: Challenge Accepted

charcroft ELECTRONICS

www.charcroft.com

Passives, Power, Sensors, Emech and more

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Registered Office: Dol-y-coed, Llanwrtyd Wells, Powys LD5 4TH

IECQ Distribution IECQ-P BSI 13.0010

BS EN ISO 9001:2015 FM29958

BS EN ISO 9120:2018 FS683651

Brands

- Advance Components
- Advanced Monolythic Ceramics
- AEM
- Alcon Electronics
- Arcotronics
- Ashcroft
- ATC
- Barker Microfarads
- Bowmar-Bowtech
- Caddock
- Cambion
- Charcroft
  - ClarityCap
  - ICW
- Cinch Connectivity
- Coast/ACM
- Comair Rotron
- Cornell Dubilier
- Dectron
- Dubilier
- E-Switch
- Euroquartz
- Exxelia
  - Alcon
  - Dearborn
  - Eurofarad
  - Firadec
  - Microspire
  - N'Ergy
  - Ohmcraft
  - RAF Tabtronics
  - Sic-Safco
  - Temex
- Fredericks Company
- Gowanda
- Greenray
- Harwin
- Johanson Dielectrics
- Johanson Manufacturing
- Kemet
  - Arcotronics
  - BHC Components
  - Evox Rifa
  - Sierra-KD
  - Tokin
- Knowles Precision Devices
  - Dielectric Laboratories
  - Novacap
  - Syfer
  - Voltronics
- LCR
- Manutech
- MFD
- MPE
- MTM Power
- NEL Technologies
- Ohmite
  - Maxcap
  - Ultronix
- Oxley Developments
- Phoenix Contact
- Presidio
- PULS
- Quantic
  - Union Technology Corp.
- RCD Components
- Sensata Technologies
  - Airpax
  - BEI Kimco
  - BEI Sensors
  - Crydom
  - Cynergy3
  - DeltaTech
  - First Technology
  - Gigavac
  - Kavlico
  - Klixon
  - Sensor-NITE
- Sonitron
- Spectrum Control
- Sprague Goodman
- State of the Art
- Statek
- TAB Components
- Thermtrol
- Thin Film Technology
- Tronser
- TT Electronics
  - AB Connectors
  - Aero Stanrew
  - BI Technologies
  - IRC
  - Optek
  - Roxspur Measurement & Control
  - Semelab
  - Stontronics
  - Welwyn Components
- Tusonix
- Unilator
- Vishay
  - Angstrohm
  - Aztronic
  - BC Components
  - Beyschlag
  - Cera-Mite
  - Dale
  - Draloric
  - Electro Films
  - Geka
  - Mallory
  - Roederstein
  - Sfernice
  - Spectrol
  - Sprague
  - Tansitor
  - Techno
  - Thin Film
  - Vitramon
- VPG Precision
  - Alpha Electronics
  - Micro-Measurements
  - Powertron
  - VPG Foil Resistors
  - VPG Force Sensors
- Vitelec
- X-REL Semiconductor

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