



Space-grade Components from a CECC-approved source

Power ICs with space-grade qualification & screening

Silicon Carbide (SiC) technology

- Schottky diodes, JFETs and MOSFETs
- Inherent radiation tolerance
- Low on-state losses due to low V_f and positive temperature coefficient
- Reduced switching losses due to zero recovery time
- Wide operating temperature range up to 220°C

Multi-Chip Array (MCA) technology

- Weight saving: 10% of TO18 or 66% of LCC
- Space saving on the PCB
- Higher reliability: 0.22 failures per 10^6 operating hours

Power hybrids

- High-power modules for launch vehicle thrust-vector applications
- Fully hermetic or ruggedised plastic packages
- IGBT, MOSFET and wide band-gap SiC & GaN options

Space-grade Passives

Surface-mount flat-pack resistor networks (8900 Space series)

- 100% Screened to NASA EEE-INST-002 Level I
- Superior moisture performance

Precision military- and space-qualified chip resistors (MIL-CHIP series)

- Qualified to MIL-PRF-55342 Space Level T
- Four industry-standard case sizes
- Thick film and TaNFilm® technology options

TaNFilm wirebondable resistor and capacitor chips (WBC series)

- Proven Tantalum Nitride (TaN) thin-film technology
- Resistor and Resistor-Capacitor networks
- TCR tracking to $\pm 2\text{ppm}/^\circ\text{C}$

High-reliability thick-film chip resistors (CR series)

- 100% high temperature and overload screened
- CECC 40401-003/004/008 release available

Request Samples

www.charcroft.com/Space

charcroft

ELECTRONICS

www.charcroft.com



FT electronics



SEMELAB

Welwyn

Free samples are available to qualifying applications.
Charcroft reserves the right to decline requests for free samples.