

The right reliability level for each component

Tiered reliability options for applications in LEO, GEO and beyond

Not all components need the highest levels of reliability testing for Space applications. That is why Charcroft offers high-reliability, space-grade and QPL components, with tiered levels of additional screening. This enables designers to achieve the optimum balance between cost and reliability for each component on the PCB.

Tantalum capacitors

- EPPL solid & wet tantalum
- Polymer hermetic seal to DLA 13030,T Level
- MIL & space-grade MnO₂ to MIL-PRF-55365
- Polymer COTS to DLA 04051/2

Film capacitors

- QPL-compliant polyester PET
- Metallised polyester according to ESA/SCC 3006
- PPS to ESA/SCC 3006/023
- Reconstituted mica to ESA/SCC 3006

Ceramic capacitors

- Space-grade and QPL-qualified MLCCs
- Industry's first BME MLCC to MIL-PRF-32535
- COTS MLCCs to DLA 05006/7, 03028/9 & 91019
- Ceramic COTS to A, B, C Level
- Stacked capacitors to MIL-PRF-49470,T level
- High-reliability non-QPL

Hi-Q microwave capacitors

- In accordance with ESCC 3009

Resistors

- Thin-film chips to MIL-PRF-55342, Level T
- Thick-film chips with ESCC-qualified technology flow
- Bulk Metal® Foil ultra-high stability to CECC40302
- Resistor networks to MIL-PRF-83401

Semiconductors & discretes

- Discrete semiconductors to ESA SCC 5000 / ESA SCC 9000
- Multichip arrays screened to ESA specifications

Fuses, opto & emech components

- QPL solid body, current-limiting fuses
- Radiation-capable opto-couplers
- Thermostats to S-311-641/02, /05, /06, /07
- Hermetic switches to MIL-S-8805

Magnetics

- QPL for miniature chip, storage & filtering inductors
- EPPL capability approval for transformers



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Charcroft: Challenge Accepted

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Passives, power, interconnect, emech and more