

Space Qualified COTS Sourcing & Testing

TRAD is your best partner to source and qualify COTS parts for **space applications**.

Our expertise in **electronics**, knowledge of **space environment** and know-how in **parts procurement** are key to ensure full compliancy with your **project quality requirements**.

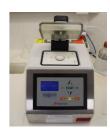
We support you throughout the **whole supply chain**: quality requirement review, parts selection and procurement, physical analysis, radiation, temperature & vibration testing and storage.





X-Ray





Microscopes

Delidding

Quality requirement review

Each project carries its own quality requirements. Our quality experts assist you in defining which components are the most suitable (**COTS vs Space Qualified Parts**), and which test procedure is needed to guarantee full compliance with your project requirements.



Physical and failure analysis

We provide a **complete set of analysis** including external inspection, X-ray, leak test, electrical test, parts opening, bond pull test, die shire test, PIND test, cross section, SEM, solderability, and more.

Our destructive physical analysis techniques are performed in accordance with **standards and methods** used in space program requirements.



Radiation, temperature and vibration testing

Bench development for **Parametric** (TID / TNID) and **functional** (SEE) testing against all particles types: Gamma, heavy ions, laser, protons, neutrons, etc.

Thermal cycling testing with high performance ramp rates in combination with random vibration testing: **HALT** (Highly-Accelerated Life Testing), **HAST** (Highly-Accelerated Stress Testing), **HASS** (Highly Accelerated Stress Screening), and **life test**.



Thermal Cycling

Our added value

- One-stop shop for procurement & testing
- 20 years experience in space activities
- MIL-STD & ECSS full compliance

All EEE parts:

- Capacitors,
- ICs, diodes,
- Memories ...









For more info, please visit: www.trad.fr

