Parts Agency EEE Reporting - New improved Web Access for our Customers

The Tesat web reporting system was completely reworked by comprehensive and professional IT-support. Based on a new design the web reporting system contains a lot of new reports and functions. It can be accessed all browsers and even from tablet PCs or handhelds. The new web reporting allows fast access to all procurement documents and procurement status.

Tesat is committed to providing customers with the information that is key to their success. The web reporting provides a single interface to all relevant data with simplified and convenient access. Click https://eeeparts.tesat.de to learn more about the EEE Reporting Portal.

Tesat was participating at the MEWS 28, Oct-21/22, Tsukuba, Japan

Tesat was participating 28th Microelectronic Workshop (MEWS 28) with a conference paper about “Upscreening for non-standard parts and new technologies as a driver for flexibility in the EEE parts selection”. Overall 258 participants of the Japanese space market and international key players attended the conference and speeches, dealing the topic of this year’s MEWS “New Parts and Manufacturing Technologies for Changing the Space Electronics”.

Newsletter 02/2015
On the 1st of September, 2015 the new showroom of Tesat was inaugurated. „Now the showroom and entrance hall invites to a travel to five decades of passionate pioneering in the space industry and gives visions for the future“ said Peter Schlote managing director of Tesat during the opening.

Participants of the opening ceremony were Brigitte Zypries, the Parliamentary Assistant Secretary at the Federal Ministry for Economy and Energy and Co-ordinator for Aviation and Astronautics, as well as Christian Lange, the Parliamentary Assistant Secretary at the Federal Ministry of Justice and for Consumer Protection.

The concept for the showroom was designed by the Berlin agency Quadraflex and was implemented by Raumtechnik Messebau & Event Services GmbH. The 150 m² showroom in the entrance hall of the completely modernised administrative building presents the fields of activities of Tesat to the customers and visitors, but also to the employees.

Parts Agency was awarded by Rockwell Collins

Thanks to our long-standing business relations and the good co-operation in the field of EEE Parts supply, engineering and project management, Tesat-Spacecom GmbH & Co. KG was awarded as a „Platinum Premium Supplier“ by Rockwell Collins Inc.

This is the highest honouring for suppliers of Rockwell Collins, a group with 4.6 billion USD turnover and more than 20,000 employees.

The award was presented in a ceremony in Heidelberg, Germany, to the Project Manager Michael Mösken and to the Head of the Parts Agency, Dr. Frederik Küchen.
From 17th to 19th of November, Tesat participates in the Space Tech Expo Europe and it’s Conferences in Bremen, Germany. The Space Tech Expo & Conference Europe aims to give the European space industry a focused marketplace for the design, manufacturing and testing of spacecraft, satellite, launch vehicle and space-related technologies. It brings together engineers and global decision makers in commercial, government and military space.

Experts of Tesat and Airbus Defence & Space from procurement, project management and engineering will be on site at the exhibition at booth F20. To find us follow [www.spacetechexpo.eu/exhibit/floor-plan-eu](http://www.spacetechexpo.eu/exhibit/floor-plan-eu).

The following presentations are planned:

**Wednesday 18 November, 2015 / 2.30-3.00pm**

Dr. Frederik Küchen  
Head of Parts Agency

*Space parts procurement, engineering and supply – Roles of a Parts Agency*

**Wednesday 18 November, 2015 / 4.10.-5.00pm**

Dr. Martin Veith  
Head of EEE-Center

*EEE parts for Space use at Airbus Defence & Space: Managing today’s demands and securing the future expectations on supplier cooperation*

Tesat Spacecom GmbH & Co. KG will be exhibiting at Space Tech Expo Europe, 17 – 19 November 2015 at Messe Bremen, Bremen, Germany and we’re inviting all of our friends and colleagues to join us at Europe’s dedicated space event for spacecraft, satellite, launch vehicle and space-related technologies.

**FRIENDS OF TESAT SPACECOM GMBH & CO. KG REGISTER FOR FREE!**

Attending the exhibition is completely FREE, your pass includes access to 180+ spacecraft manufacturers and suppliers, industry and technical forums in the expo hall, networking receptions, B2B Matchmaking and much more! If you have a stake in the space industry, attending the show in Bremen is a must!

We’ll be at booth F20, so come by and meet the team Tuesday through Thursday.

Register for your free pass by following this link. [www.spacetechexpo.eu](http://www.spacetechexpo.eu)
A very strategic and important aspect of our parts procurement projects for all our customer’s world-wide is the high competence and long experience of our EEE Parts Laboratories (EEE Labs). Our EEE Labs have been testing and inspecting EEE components for a large number of projects for more than thirty years. Our labs do not only contribute in ensuring that we provide you with parts of the required quality for your project, but they carry out a broad scope of testing and inspection activities from single EEE devices to complex functional boards.

Testing, inspection capabilities and competences:

• Evaluation and qualification of EEE components
• Construction analysis on EEE components
• Destructive physical analysis (DPA)
• Failure analysis
• Electrical testing for component parameters and characteristics
• Up-screening of EEE components
• Source inspections (Precap, Final source, MIP)
• Environmental tests on printed circuit boards (PCB)
• Interconnect stress test (IST)
• SMT process qualification

Besides the above standard services, we employ the available capabilities to perform single tests and inspections like X-Ray radiography, hermetic seal test, microsection inspections and many more. We also design and perform special tests and inspections on customer request as support to quality, engineering and manufacturing.

Contact:
Dr. Augustine Mofor
NEW’s from EEE-Engineering – PIEF Testing

The origin was localized to be within a Hirel screened EEE device (equiv. class 1). At a first glance no obvious root cause was detectable but signs of melted metallic material created the hypothesis of metallic micro debris inside the cavity to cause the intermittent or even permanent short.

As the PIND screening had reveal a normal result Tesat EEE Parts Engineering decided to introduce a PIEF (Particle Induced Electrical Fault) test for the suspicious lot as additional rescreening. The purpose of this screening is to identify particles inside the cavity which cannot be detected by noise detection, but are big enough to shorten microstructures inside the EEE component.

The PIEF test was originally developed around 20 years ago by Kent Walters (Microsemi), but never became an official MIL-STD Test Method besides the standard PIND test. Currently this test method is back in discussion at G12/JEDEC meetings in US.

For PIEF screening the DUTs were fixed on a specially designed printed circuit board in biased condition and exposed to a mechanical shock similar to the standard PIND procedure. The amplified current through the DUT was measured and displayed on a monitor. By setting an accurate resolution it was possible to identify very short current spikes and to successful screen out suspicious components.

Finally Tesat EEE Parts Engineering performed an internal visual inspection of the suspicious components and identified “internal micro metallic debris” as the root cause of the current spikes or permanent shorts.

Dates

11. - 12. Nov. 2015 Workshop Herausforderung Weltraum, Fraunhofer INT, Euskirchen, Germany
17. - 19. Nov. 2015 Space Tech Expo Europe in Bremen, Germany

Your Tesat Parts Agency