



Newsletter 01/2014

## Tesat-Spacecom: Successful Polyimide Qualification for PCB manufacturing



For many decades Tesat-Spacecom has successfully been manufacturing PCBs using the HTgFR4 base material IS420. Tesat is qualified for this process according to ECSS-Q-ST-70-10C. Due to market demand Tesat-Spacecom has now also successfully qualified **sequential rigid polyimide technology according to the Airbus Defence & Space ADS.E.1029 standard using the Polyimide base material Arlon35N**. Tesat-Spacecom is now able to offer PCBs bases on either base material.

### Each of these materials has different advantages:

Polyimide has a higher Glass Transition Temperature ( $T_g$ ) than HTgFR4 and shows better electrical and flow properties. But this material has

a brittle behavior, the handling is more complex and requires more effort during all manufacturing processes. FR4 on the other hand is less susceptible to humidity. However, Tesat-Spacecom is ready to support you in finding the best solution for your application.

For more information please use the following links:

<https://escies.org/webdocument/showArticle?id=798&groupid=6>

<http://www.tesat.de/en/services/printed-circuit-boards>

For a request for quotation please contact:

Martina Beinder ([martina.beinder@tesat.de](mailto:martina.beinder@tesat.de)) or Sven Zeidler ([sven.zeidler@tesat.de](mailto:sven.zeidler@tesat.de))

Tesat-Spacecom is always open for technical discussions with their customers to help them reach their targets. At Tesat-Spacecom we strictly apply our internal quality processes that have been successfully used over years on our manufactured products.

## EEE Parts Engineering Training

Tesat Parts Agent offers training courses covering all topics related to EEE parts for space applications. Based on existing modules to all important topics these seminars are tailored, customized and extended to the participants needs, wishes and background.

For groups of eight or more participants Tesat offers such tailored seminars either in Backnang or any other location.

**Possible topics are:**

- Specification systems (MIL, ESCC, etc)
- Evaluation and Qualification of components
- Selection process of EEE parts
- Quality Assurance (DPA, incoming inspection, failure analysis, NCR / NRB process)
- Radiation effects
- Handling, storage, shipment and relifing of EEE parts
- Market overview of components for space

The seminars are intended for everyone working with EEE parts for space applications (Procurement, Quality, Application, Project Management, etc). Many international customers have joined the seminars already and positive response has been given.

For detailed information please contact Dr. Martin Veith ([Martin.Veith@tesat.de](mailto:Martin.Veith@tesat.de))

## New Director of the Tesat Parts Agent

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Dr. Alexander Colquhoun has retired by the end of January after 10 years as Director of the Parts Agent. Since February 1<sup>st</sup> his successor is Dr. Martin Veith who joined Tesat in 1998. Previously, since 2004 Martin was heading the Parts Agent business with external customers. This assures continuity in service to all our customers for EEE parts as well as for Tesat equipment.

Dr. Martin Veith

## ILA Berlin Air Show

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The Berlin Air Show is the most important fair for the aerospace industry in Germany. From May 20-25 the leading international suppliers will meet at the Berlin ExpoCenter Airport.



You will find the Tesat Parts Agent on the Tesat-Spacecom booth 4302 in Hall 4. Tesat-Spacecom will present their wide range of products such as Amplifier Products, Laser Products, Communication Payloads, Datalink Products, Passive Products as well as our two new Tesat UK product lines Active Microwave Products and Communication Processors. And of course, the Tesat Parts Agent will be a part of this portfolio.

Take the advantage to visit this International Air Show for contacts and technical discussions with our team of experts.

**For Pre-arrangements of meetings during the ILA please contact Petra Stannek:**

via E-Mail [petra.stannek@tesat.de](mailto:petra.stannek@tesat.de) , via Phone +49(7191)930-1970 or via Fax +49(7191)930-21970.  
There is a limited contingent of free admission tickets available.

You will find more information about the ILA Berlin Air Show here <http://www.ila-berlin.de>

We are looking forward to welcome you in Berlin!

## Dates

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20.-25. May 2014      ILA Berlin Air Show

**Your Tesat Parts Agent**