

Space Passive Component Days - Final Programme

Tuesday 9th October 2018

| Start Time | End Time | Title |
|------------|----------|---|
| 08:30 | 09:30 | Registration Desk Opening |
| 09:30 | 12:00 | ESCC training course - Part I |
| 12:00 | 13:00 | Lunch |
| 13:00 | 16:00 | Resistor Seminar |
| 13:00 | 16:00 | ESCC training course - Part II |
| 16:00 | 18:00 | ESA Site Tour & Space Expo Museum <i>Only available to pre-registered participants</i> |

Space Passive Component Days - Final Programme

Wednesday 10th October 2018

| Start Time | End Time | Topic | Title | Company |
|------------|----------|---|---|--|
| 08:30 | 09:30 | | Registration Desk Opening | |
| 09:30 | 09:50 | | Welcome Speech | |
| 09:50 | 10:10 | | Introduction & Instructions Speech | |
| 10:10 | 10:30 | Technology Roadmaps | Space Passive Components : Activities, News and Trends | ESA, Netherlands |
| 10:30 | 10:50 | Normative System & Standards | Recent developments in ESCC Qualification Methodology. Experience in Implementation with passive components | ESA, Netherlands |
| 10:50 | 11:10 | | Harness Optimization by improving the Wire Rating Standards | Airbus Defence and Space, France |
| 11:10 | 11:30 | Networking Break | | |
| 11:30 | 11:50 | New Developments | Supercapacitors for Space Applications | ALMATECH SA, Switzerland |
| 11:50 | 12:10 | | ELARA Platform | Smiths Interconnect, USA |
| 12:10 | 12:30 | | Recent developments in microwave filters based on GaN/Si SAW resonators, operating at frequencies above 5 GHz | IMT Bucharest, Romania |
| 12:30 | 12:35 | Technical Introduction of Components (TICs) | Ferrite and Microwave Assemblies for Satellites and other Space Applications | Smiths Interconnect, USA |
| 12:35 | 12:40 | | New Generation of Heating solutions for Space propulsion and satcom thermal management | THERMOCOAX, France |
| 12:40 | 12:45 | | Cristal innov : Quartz and piezoelectric substrates for space passive components | Cristal innov, France |
| 12:45 | 12:50 | | Custom designed waveguide circulators for high power applications | TKI-Ferrit, Hungary |
| 12:50 | 12:55 | | Versatile Miniature Power and Data Connectors for Rapid Integration | Axon' Cable Ltd, Great Britain |
| 12:55 | 13:00 | | 2nd PCNS Symposium Invitation | European Passive Components I., Czech Republic |
| 13:00 | 14:30 | Lunch | | |
| 14:30 | 16:20 | Dedicated Poster Session | | |
| 16:20 | 16:40 | Materials and Processes | Electrospun Fibrous Flexible EDLC Electrodes | Tallinn University of Technol., Estonia |
| 16:40 | 17:00 | | Laser machining of multi-capacitance custom design filtering MLCC's | Exxelia, France |
| 17:00 | 17:20 | | Pushing tantalum capacitors to the limit: A powder manufacturers view to 300 V and beyond | H.C. Starck GmbH, Germany |
| 17:20 | 17:40 | | Development of antistatic cable insulator by dispersing electroconductive nanoparticles | LIST, Luxembourg |
| 17:40 | 18:00 | Lessons Learned and In-flight Experiences | Relays : Failures occurring & Lessons learnt | ESA, Netherlands |
| 18:00 | 20:00 | Welcome Drink | | |

Space Passive Component Days - Final Programme

Thursday 11th October 2018

| Start Time | End Time | Topic | Title | Company |
|------------|----------|---|--|------------------------------------|
| 08:30 | 09:00 | Session & Chair Introduction | | |
| 09:00 | 09:20 | Technology Roadmaps | ADS Roadmap for Passive Components Laurent Toudret, Airbus Defence and Space | |
| 09:20 | 09:40 | | Capacitors News and Trends | EPCI, Czech Republic |
| 09:40 | 10:00 | Application, Trends & Needs | Power Distribution System Efficiency Considerations | Positronic, France |
| 10:00 | 10:20 | Evaluation & Qualification | Ta SMD capacitors with Polymer Counter Electrode for Space Applications | KEMET Portugal, SA, Portugal |
| 10:20 | 10:40 | | New versions of coaxial attenuators and loads | RADIALL SA, France |
| 10:40 | 11:00 | | Extension of the space qualified MLCC's ranges | Exxelia, France |
| 11:00 | 11:30 | Networking Break | | |
| 11:30 | 11:50 | Test, Reliability & Evaluation for space | A Screening Method Using Pulsed Power Combined with Infrared Imaging to Detect Pattern Defects in Bulk Metal Foil or Thin Film Resistors | ASRC AS&D at NASA Goddard, USA |
| 11:50 | 12:10 | | Polymer Tantalum Capacitors with Suppressed Sensitivity to Water Content | AVX, Czech Republic |
| 12:10 | 12:30 | | Comparative test results (performed by EGGO Space s.r.o) of large format supercapacitors from Skeleton Technologies and well-known competitors (anonymously) | EGGO Space s.r.o, Czech Republic |
| 12:30 | 12:35 | Technical Introduction of Components (TICs) | Improved Power Handling in Resistive Devices | Smiths Interconnect, USA |
| 12:35 | 12:40 | | RF Space Flight Cable Assembly Development | Carlisle Interconnect Technol, USA |
| 12:40 | 12:45 | | Miniature Low Noise OCXO (USO) for GEO and extraplanetary missions | AXTAL GmbH & Co. KG, Germany |
| 12:45 | 12:50 | | COBHAM MICROWAVE SPACE COMPONENTS | COBHAM MICROWAVE, France |
| 12:50 | 12:55 | | Ultra-High Precision Z Foil Current Sense Resistors for Space Applications | VPG FOIL RESISTORS, Israel |
| 12:55 | 13:00 | | MDMA / MDMB 51 Ways Connectors Rémi ANTOINE, C&K | |
| 13:00 | 13:05 | | E & W Band Waveguide Isolators for Satellite Communications | Dorado International, UK |
| 13:05 | 14:30 | Lunch | | |
| 14:30 | 14:50 | Technology Roadmaps | The latest activities related to the passive components in JAXA | JAXA, Japan |
| 14:50 | 15:10 | Application, Trends & Needs | Developing and qualification high speed digital harness for Telecom space flight | Airbus Defence and Space, UK |
| 15:10 | 15:30 | New Developments | EMI Tight Rectangular Connectors | Airbus defence and space, France |
| 15:30 | 15:50 | | Miniaturization and Advances of Bulk Head Mounted EMI Filters: Material, Process, Design | AVX Filters, USA |
| 15:50 | 16:10 | | Fused Deposition Modeling: A new technology for the fabrication of microwave loads | Lab-STICC / UBO, France |
| 16:10 | 16:30 | | Power Sub-Miniature (PSM) Interface | HUBER+SUHNER Astrolab, USA |
| 16:30 | 17:00 | Networking Break | | |
| 17:00 | 18:00 | Interactive Panel Discussion | Interactive Panel Discussion: "Impact of Digitalisation on Passive Components" 17h00 - 18h00 | |
| 19:30 | 01:00 | Gala Dinner @ Beach Pavilion "De Zeemeeuw", Noordwijk | | |

Space Passive Component Days - Final Programme

Friday 12th October 2018

| Start Time | End Time | Topic | Title | Company |
|------------|----------|---|--|----------------------------------|
| 08:30 | 09:00 | Session Chair & Introduction | | |
| 09:00 | 09:20 | Technology Roadmaps | TAS RoadMap | THALES ALENIA SPACE, France |
| 09:20 | 09:40 | New Developments | High stability, very low phase noise, PULSAR-SP USO | AR ELECTRONIQUE, France |
| 09:40 | 10:00 | | Solderless assembly of high pin count packages on PCB | THALES ALENIA SPACE, France |
| 10:00 | 10:20 | | Q-band planar ultra-compact microwave circulators | Lab-STICC / UBO, France |
| 10:20 | 10:40 | | Advances in Wet Tantalum Capacitor Technology | Vishay Intertechnology, USA |
| 10:40 | 11:00 | | The Evolution of SpaceWire Electrical Interconnect: Faster, Lighter, Smaller | Axon' Cable Ltd, Great Britain |
| 11:00 | 11:30 | | Networking Break | |
| 11:30 | 11:50 | Test, Reliability & Evaluation for space | Anomalous Transients in Chip Polymer Tantalum Capacitors | ASRC Federal S&D, USA |
| 11:50 | 12:10 | | Tantalum and Niobium-based Capacitors: Science, Technology, and Space Applications | Kemet, USA |
| 12:10 | 12:30 | | Qualification of Commercial Off-The-Shelf Supercapacitors for Space Applications | Airbus Defence and Space, France |
| 12:30 | 12:50 | | Qualification of press-fit connector for space-flight applications, feedback and Design improvements | ALTER Technology, Spain |
| 12:50 | 13:10 | Closing Session & Award Ceremony | | |
| 13:10 | 14:30 | Lunch | | |
| 14:00 | 14:30 | Manufacturers' Private Roadmap Rooms n° AJ 19/ AJ 20 | Smiths Interconnect Technical and Product Roadmap | Smiths Interconnect |
| 14:00 | 14:30 | | Rakon understanding of New Space requirements and adapted offering | Rakon |
| 14:30 | 15:00 | | Cobham Microwave Private Roadmap | Cobham Microwave |
| 14:30 | 15:00 | | Axon' Cable Technology Roadmap | Axon' Cable |
| 15:00 | 15:30 | | Gore Product Roadmap | W. L. Gore |
| 15:00 | 15:30 | | QTI Sensing Solutions; 41 years of supplying QPL thermistors | QTI Sensing Solutions |

Space Passive Component Days - Final Programme

Poster Session
Wednesday 10th October 2018 @14h30

| Title | Company |
|---|--------------------------------|
| Long-Term Actuation Demonstration of RF-MEMS Switches for Space Applications | AirMems |
| Ultra-High Precision Z Foil Current Sense Resistors for Space Applications | VPG FOIL RESISTORS |
| Isolated Pair Quadrax for Rugged D-Subminiature and MIL-DTL-38999 | Smiths Interconnect |
| Qualification of platinum thin film temperature sensors | Innovative Sensor Technology I |
| High Temperature Mineral Insulated Cables | THERMOCOAX |
| nanOSTAR-SP Compact OCXO for New Space applications | AR ELECTRONIQUE |
| Accuracy Assessment of a Hemispherical Emissivity Measurement Facility | Netherlands Aerospace Centre |
| Assessment on using Solderless Assembly for Electronics in Space Applications | Univ. "Politehnica" Bucharest |
| Development of electrical-circuit models for passive components | Brno University of Technology |
| Behaviour of SCHURTER space fuses at very high temperature conditions | SCHURTER AG |