

Space Passive Component Days - Preliminary Programme

Tuesday 13th October 2026

Start Time	End Time	Title
08:30	09:30	Registration Desk Opening
09:30	12:00	ESCC Training Course
12:00	13:00	Lunch
13:00	16:00	ESCC Chief Inspector Meeting
14:00	16:00	EEE Passives Seminar: AI impact on EEE
16:00	18:00	ESA Site Tour <i>Only available to pre-registered participants (first come - first served basis)</i> <i>Check the confirmed participants' list at the registration desk</i>

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Wednesday 14th October 2026

Start Time	End Time	Topic	Title	Company
08:30	09:30		Registration Desk Opening	
09:30	09:50		Welcome Speech - Keynote Talk	
09:50	10:10		Introduction & Instructions	
10:10	10:40	Application, Trends & Needs	ESA Space Passive Components: News, Trends, Activities	ESA/ESTEC, Netherlands
10:40	11:00		Evolving the Enceladus L4 Mission Under New Launcher Conditions	ESA/ESTEC, Netherlands
11:00	11:30	Networking break		
11:30	11:50	Test, Reliability & Evaluation for space	Qualification Results for Cryogenic Temperature Testing of EEE Components in the ESA ARIEL Science Mission	Alter Technology Spain
11:50	12:10	Artificial Intelligence (AI)	An Agentic AI Approach to Space Harness Component Selection	MIT Lincoln Laboratory, USA
12:10	13:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	General Presentation Littelfuse Company	C&K Connect – Littelfuse - France
			Panasonic Polymer Capacitor for Miniaturization and Better Efficiency for Space	Panasonic Industry Europe - Germany
			Advanced Thermal Interconnect Solutions for ADHA / Conduction Cooled Form Factors	Performance Interconnect France
			Miniaturised Self-Biased Circulators/Isolators for GaN Applications	Exens-Solutions France
			Low Profile SMD Mica Capacitors - High Voltage Pulse and Filtering Properties	Exxelia France
			Market Challenges MLCC Capacitors HiRel	SRT-Microcéramique France
			PCNS 2027 Invitation	EPCI – Czech Rep.
13:00	14:30	Lunch		
14:00	14:30	Manufacturers' Private Roadmap	Axon' Cable Road map	Aj019/Aj020
14:30	15:20	Poster Session		
15:20	16:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	ESCC Qualified Magnetics Off The Shelf	Flux A/S - Denmark
			Kyocera-AVX Ltd Space Level Ceramic Road Maps	Kyocera-AVX Ltd UK
			Planar Magnetics for Space Applications	Payton America Inc USA
			New ESCC Qualifications for Flexible Heaters	IRCA Zoppas Industries - Italy
			Development of HDI PCBs using low loss materials	OKI Circuit Technology, Japan
16:00	16:20	New Developments	Axon' Compact PCI Serial Space	Axon' Cable, France
16:20	16:40		A Simplified Approach to Choosing a DC Blocking Capacitor	Vishay, USA
16:40	17:00	Evaluation & Qualification	ORBIX: The Cutting-Edge Solution for Modern Space Challenges	Radiall, France
17:00	17:20	New Developments	Exxelia's Path to RoHS: Ensuring Reliability in Next-Generation Space capacitors	Exxelia, France
17:20	17:40	Materials and Processes	High-permittivity garnet ferrites for LTCC compatible circulators	Thales Group, France
17:40	18:00	New Developments	Introduction of New KAVX Low Inductance Polymer Tantalum Capacitors	Kyocera AVX Components, Czech Republic
18:00	20:00	Official Group Photos Welcome Drink - ESTEC Erasmus High Bay		

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Thursday 15th October 2026

Start Time	End Time	Topic	Title	Company
08:30	09:00	Session Chair & Introduction		
09:00	09:20	Technology Roadmaps	Thales Alenia Space Road Map on Passive Components	Thales Alenia Space, France
09:20	09:40	Lessons Learned or In-flight Experiences	Lessons Learned in Space Harness Technologies: Insights from Airbus Defence and Space	Airbus Defence and Space, France
09:40	10:00	Evaluation & Qualification	HYPERBITS™ Single-Body High-Speed Connector with S-FECT™ Solderless Terminations for ADHA Embedded Space Systems – Progress from Concept to Development to Validation	Performance Interconnect France
10:00	10:20	Lessons Learned or In-flight Experiences	Lessons learned on electromechanical relays for Earth Observation applications	ESA, Netherlands
10:20	10:40	Materials and Processes	Fully Printed Resistors and Capacitors for Space Applications: Environmental Reliability and Failure Analysis	UMass Lowell, USA
10:40	11:00	New Developments	Solid-State Polymer Dielectric Capacitors as an Alternative to Aluminum Electrolytics in 48V–120 V Power Electronics	Polycharge America USA
11:00	11:30	Networking Break		
11:30	11:50	Evaluation & Qualification	The Latest Activities Related to Passive Components in JAXA	JAXA, Japan
11:50	12:10		Automotive Polymer Tantalum Capacitors with Capabilities beyond AEC-Q200 - 48V Application Voltage Adoption for LEO	Yageo Kemet Portugal
12:10	13:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	Engineering Anisotropic Thermal Pathway with Pyrolytic Graphite Sheets for High Power	Panasonic Industry Europe - Germany
			EZiCoax - Single-Piece, Solderless Coax for Interposer Solutions	Smiths Interconnect France
			Magnetics for GaN Applications	Vanguard Electronics USA
			MicroD Connector: Removable, EMI & Fast-lock	Axon' Cable - France
			Hybrid Supercapacitors: High-Power Energy Storage Components for Space	Swistor- Switzerland
			Rosenberger - Product Presentation Space	Rosenberger Germany
			Crystal - and Atomic - Clocks for LEO Constellations	Microchip Freq Techn Germany
			BizLink Cables for Space Applications	BizLink Germany
13:00	14:30	Lunch		
14:00	14:30	Manufacturers' Private Roadmap	Panasonic Roadmap	Aj019/Aj020
14:30	14:50	Commercial Off-The-Shelf (COTS)	ReadyStack Interposers – Commercial-off-the-shelf (COTS), Interposer, using Spring loaded, Stamped, Electrical Contacts for Solderless Interconnections (Board to Board), Performance Criteria and Overview of Case Studies and Developments.	Smiths Interconnect (a Molex Company) France
14:50	15:05		Evaluation of Automotive-Grade Ceramic Capacitors for Space Applications	CNES, France
15:05	15:20		Evaluation of Commercial-Grade Tantalum Capacitors for Space Applications	
15:20	15:40	Evaluation & Qualification	Enhanced Grade Fuses – A Newly Qualified Fuse Technology for New Space Applications	Schurter AG, Switzerland
15:40	16:00	New Developments	Integrated Magnetic Component for Innovative Power Converter	Exxelia, France
16:00	16:20	Test, Reliability & Evaluation for space	Reliability Assessments of Automotive Grade Tantalum Capacitors for Space Applications	Miller Engineering & Research Corp, USA
16:20	16:40	New Developments	Study of the Compatibility of 3D-printed Loads with a Space Environment	Lab-STICC / UBO, France
16:40	17:00	Networking break		
17:00	18:00	Interactive Panel Discussion	No EEE, No Sovereignty: How can Europe secure access to trusted EEE components and dual-use technologies to strengthen resilience, competitiveness, and strategic autonomy in space and defense?	
19:30	01:00	Gala Dinner @ Beach Pavillion “De Zeemeeuw” <i>Kon. Wilhelmina Boulevard 108, Noordwijk</i>		

Space Passive Component Days - Preliminary Programme

Friday 16th October 2026

Start Time	End Time	Topic	Title	Company
08:30	09:00	Session Chair & Introduction		
09:00	09:20	Technology Roadmaps	Airbus Defence and Space Harness and Component	Airbus Defence and Space, France
09:20	09:40	Test, Reliability & Evaluation for space	Battery Lifetime Enhancement in Nanosatellite EPS Using a Semi-Active Battery–Supercapacitor Hybrid Energy Storage System with Robust SoC Estimation	Satellite Development Center, Algeria
09:40	10:00	New Developments	Aluminum Polymer Capacitors for Aerospace Power Systems: a New Approach to Compact and Low-Loss Energy Storage	Southern Denmark University, Denmark
10:00	10:20	Materials and Processes	MINCOR - Minimisation of Crystal Oscillator Cosmic Radiation Effects	Rakon, France
10:20	10:40	Evaluation & Qualification	Space Preliminary Evaluation Testing of Advance POI Technology	Alter Technology Spain
10:40	11:00	Networking break		
11:00	11:20	New Developments	Supercapacitors for Space Applications	Almatech, Switzerland
11:20	11:40		EP2 150 V Capacitors and Series Association for Space Applications	Vishay, France
11:40	12:00	Test, Reliability & Evaluation for space	Radiation Mitigation in ASIC-Based Oscillators: Comparative Analysis of Design for Resilience and COTS Foundation Approaches	Rakon, France
12:00	12:20	Materials and Processes	Printed Electronics for Space Applications: an Approach Towards the Integration of Passive Electronics	Tecnalia, Spain
12:20	12:40	Evaluation & Qualification	Lastest Non-Conformances and Findings on CA-DPA	Serma Technologies, France
12:40	13:00	Closing Session & Award Ceremony		
13:00	14:30	Lunch		

Space Passive Component Days - Preliminary Programme

Poster Session

Wednesday 14th October 2026 @ 14:30

Title
Pore-Engineered N,S Co-Doped Activated Carbon Decorated with Vanadium Nitride Nanoparticles for Dual Aqueous and Organic Supercapacitors
In-Orbit Assessment of Radiation Effects on Passive Components in CCD Focal-Plane Electronics: Flight Feedback from an Earth Observation Optical Imaging Payload
Hybrid Reliability Modeling of Capacitors in the Alsat-1B High-Speed Data Recorder
Quartz-S: ESA Qualification of SMT Electromechanical Relay
Assessing Second-Life Supercapacitors in Space Systems: Towards an LCA Framework
Managing Dynamic Separation Constraints: Case Study on Ground-to-Launcher Interconnections for Latitude's Zéphyr Micro-Launch
Monte Carlo Simulation of Performance Degradation in Microwave Ferrite Isolators Under Combined Space Environmental Stresses
Modelling TID-Induced Degradation in Dielectric Films for Space-Grade Capacitor Design
Parameter Identification of a Supercapacitor for CubeSat Energy Storage Applications
Towards Green and Sustainable High-Energy Density Supercapacitors