

Space Passive Component Days - Preliminary Programme

Tuesday 15th October 2024

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	15:30	EEE Passives Seminar	ESCC training course - Part II
15:30	18:00	ESA Site Tour & Space Expo Museum <i>Only available to pre-registered participants</i>	

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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	Space Passive Components: Latest News, Activities, and Trends	ESA/ESTEC, Netherlands
10:40	11:00		L4: Moons of the Giant Planets: it will be cold, dark and far away from home	ESA/ESTEC, Netherlands
11:00	11:30	Networking break		
11:30	11:50	Technology Roadmaps	Road Map for Space Harness - Vision and Opportunities for DC Harness Technologies	Airbus Defence and Space, France
11:50	12:10	Materials and Processes	Ultracapacitor Technology in the Space Environment	FastCap Ultracapacitors, USA
12:10	12:30		Flat Cable Harness for Space Launcher Applications	ArianeGroup, France
12:30	13:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	Automotive Polymer Tantalum Capacitors with capabilities beyond AEC-Q200	KEMET Electronics - Portugal
			Heatbind - Advanced solid thermal retainer incorporated in monoblock card frame for conduction cooled system	PERFORMANCE INTERCONNECT SAS France
			Planar Magnetics for Space Applications	Payton America Inc, USA
			Harp Technologies company overview and ferrite components	Harp Technologies Oy, Finland
13:00	14:30	Lunch		
14:00	14:30	Manufacturers' Private Roadmap Parallel Sessions Room number Aj019/Aj020	AXON' cable Private Roadmap Session	Isabellenhütte Private Roadmap Session
14:30	15:20	Poster Session		
15:20	16:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	Elevating Space Technology: Next-Gen Crystal Oscillators for advanced New Space applications	AXTAL GmbH - Germany
			Improved knowledge of the thermal behaviour of space-qualified CCM and SESI component families	Exxelia - France
			KAVX roadmap on hi-rel Ta-capacitors field	KYOCERA AVX CZ
			Expect More Technology - Peltier Thermo-electric generators TEG/TEM	Isabellenhütte Heusler- Germany
			New SPL Series of fixed attenuator and Thermopad®	Smiths Interconnect, France
			Aerospace product portfolio of Littelfuse (C&K)	Littelfuse C&K - NL
16:00	16:20	New Developments	SMD Compatible LTCC Circulators in Ku-Band	IMT-Atlantique, France
16:20	16:40		The Benefits of Using High-Reliability Polymer Tantalum Capacitors	KEMET/YAGEO, USA
16:40	17:00		SWAP-C Ka-Band High Power Duplexer Based on the Emerging AFSIW Technology	Exens Solutions, France
17:00	17:20		Fast-lock ZIF interconnections and connectorless flat cables	Axon, France
17:20	17:40	Technology Roadmaps	Technological challenges and roadmap for flexible heaters	IRCA s.p.a. Zoppas Industries, Italy
17:40	18:00	Application, Trends & Needs	Selection of POGO-Pin based connector for ESA COMET Interceptor Mission	ESA/ESTEC, Netherlands
18:00	21:00	Welcome Drink		

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Thursday 17th October 2024

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	New Developments	Development of HYPERBITS Employing S-FECT Technology for High Data Rate Applications		PERFORMANCE INTERCONNECT SAS, France	
09:40	10:00		RF Mineral Insulated Coaxial Cable, Impedance 50 Ohm		THERMOCOAX, France	
10:00	10:20		Commercialization of GN3 Graphene Material as an Active Electrode for High Energy Supercapacitors		EPCI, Czech Republic	
10:20	10:40	Application, Trends & Needs	Development of a new Fast-Locking RF Connector Interface up to W-Band		RADIALL SA, France	
10:40	11:00	Technology Roadmaps	The latest activities related to the passive components in JAXA		JAXA, Japan	
11:00	11:30	Networking Break				
11:30	11:50	Test, Reliability & Evaluation for space	Qualification Challenges and Approaches for Cryogenic Temperature Testing of EEE Components in the ESA ARIEL Science Mission		Alter Technology TÜV NORD, Spain	
11:50	12:10	Technology Roadmaps	Unlocking the Future of Space Electronics with the Advanced Manufacturing Revolution		ESA/ECSAT, UK	
12:10	13:00	Technical Introduction of Components (TICs) <i>7min per TIC</i>	A Modular High Speed Twinax and Coax Connector System for Spacecraft Datalinks		Glenair GmbH Germany	
			Secure fast lock nano D connectors and small, low cost, quick locking composite connectors		Axon, France	
			Tinning of passives and all other small components to prevent tin whiskers, to the GEIA standard		Retronix Inc, Great Britain	
			EP2 high energy Ta capacitor and modules for high voltage, energy storage and pulse power		Vishay, France	
			High Power SIW components for telecom satellite missions		Ecliptic DS - Cyprus	
			BizLink ESCC Cables and custom solutions for space applications		Bizlink Special Cables, Germany	
		Space Oscillator Portfolio of Microchip VOP		Microchip Frequency technology, Germany		
13:00	14:30	Lunch				
Start Time	End Time	Title		Company	Company	
		Parallel Session – NEWTON 1			Parallel Session – NEWTON 2	
14:30	14:50	3D printing of passive electronic components from the perspective of a components manufacturer		TDK Electronics, Austria	High Frequency Behavior of CHA Series Resistors Following AEC- Q200 Qualification Tests	Vishay SA, France
14:50	15:10	New Additive Manufacturing Technology for Space Applications		Nuvotronics, USA	Development of highly integrated W-band circulators/isolators based on Substrate Integrated Waveguide (SIW) technology	Harp Technologies Ltd, Finland
15:10	15:30	Passive Massive MIMO Hybrid RF-Perovskite Energy Harvesting Frontend for LEO Satellite Applications		Manchester Metropolitan Univer, UK	MINCOR - Minimisation of Crystal oscillator cosmic radiation effects	RAKON, France
15:30	15:50	Hybrid energy Storage Based on Supercapacitors and Conventional Batteries system for Nanosatellite Applications		Algerian Space Agency	CAD-to-FAB: introduction to recent ongoing investment in capability to produce planar RF passive structures.	TRAK Microwave Limited, Great Britain
15:50	16:10	COTS-Plus / Alternate Grade bulk capacitor for LEO flight Platforms		Kyocera AVX Czech Republic	Novel Safe-Life concept for circuit protection devices	SCHURTER AG, Switzerland
16:10	16:30	High Energy Density Supercapacitors for Space Applications: A Leap Forward in Space Exploration Energy Systems		Swistor, Switzerland	Towards W-band self-biased circulators for next generation of VHTS payload	Lab-STICC / UBO, France
16:30	16:50	Networking break				
16:50	18:00	Interactive Panel Discussion	"Advancing Space Exploration: The Role of AI Across the Entire EEE Life Cycle"			
19:30	01:00	Gala Dinner @ Beach Pavilion "De Zeemeeuw", Kon. Wilhelmina Boulevard 108, Noordwijk				

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08:30	09:00	Session Chair & Introduction		
09:00	09:20	Technology Roadmaps	Airbus DS Road Map	Airbus D&S, France
09:20	09:40	New Developments	Solid State Polymer Multilayer Capacitors for High Temperature Applications	Polycharge America INC, USA
09:40	10:00		High-density PCB assemblies for space applications: from evaluation to qualification	IMEC, Belgium
10:00	10:20		Innovative integrated magnetic for DAB power converter	Exxelia, France
10:20	10:40		Space grade S-band high power isolator development	TKI-Ferrit Ltd, Hungary
10:40	11:00	Networking break		
11:00	11:20	Evaluation & Qualification	Stress Testing of Chip Aluminum Polymer Capacitors	Jacobs Technology Inc., USA
11:20	11:40	New Developments	Graphene-based bank of supercapacitors from electrode to system level	Pleione Energy S.A, Greece
11:40	12:00		Latching Solid state relay replacing mechanical relay	Isocom Limited, UK
12:00	12:20		Significant improvements in energy density of nanocomposite dielectric capacitors with nanoparticle surface engineering	University of Southern Denmark
12:20	12:40	Test, Reliability & Evaluation for space	Failure Analysis after in orbit anomaly on COMEPA bimetallic thermostat TH47	ESA/ESTEC, Netherlands
12:40	13:00	Closing Session & Award Ceremony		
13:00	14:30	Lunch		

Space Passive Component Days – Preliminary Programme

Poster Session
Wednesday 16th October 2024 @14h30

Title
Evolving Satellite from Bespoke to Production – Airbus D&S UK
Ku/K-Band LTCC SMD Circulator for Space Applications – Exens Solutions France
Advancing Space Communication: ...Very High Power L-band Isolator for Galileo's Next Generation Exens Solutions France
Inkjet Printed RF Baluns with Broad Bandwidth and RF co-designed Bandpass Filtering – University of Cork Ireland
3D Printed monolithically Integrated 3D Bandpass Filtering Technologies – University of Cork Ireland
Evaluation of Automotive Grade Resistors for Space Flight Evaluation – NASA USA
Modelling and simulation of supercapacitor for future space application – Algerian Space Agency CDS
Cryogenic Evaluation of a COTS Latching Relay – ESA/ESTEC