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Paper No., Page No.	First Author	Part No.	Type	Manufacture	Data		Total Ionizing Dose				Single Event Effects, H-heavy ion, P-proton, L-laser							Displacement Damage		Facilities	Standard	Environment
					Terrestrial	Flight	Co60	ELDRS	Protons	Electrons	SEU	SET	SEFI	SEL	SEB	SEGR	Dose Rate	Protons	Neutrons			
1, pp. 1-7	T. Page	K6R4008C1C	512K x 8 SRAM	Samsung	√						√H			√H								
		K6R4016C1C	256K x 16 SRAM	Samsung	√						√H			√H								
		K6R4008C1D	512K x 8 SRAM	Samsung	√									√H,N								
		CY7C1049B	512K x 8 SRAM	Cypress Semiconductor	√									√H								
		CY7C1021CV33	64K x 16 SRAM	Cypress Semiconductor	√									√H								
		BS616LV1015AI	64K x 16 SRAM	Brilliance	√									√H								
		IDT71V416L15	256K x 16 SRAM	Integrated Device Technology	√									√H								
2, pp. 8-12	J. George	OP113F	Operational Amplifier	Analog Devices	√							√H										
		OP484F	Operational Amplifier	Analog Devices	√							√H		√H								
		OP270	Operational Amplifier	Analog Devices	√							√H										
		OP400	Operational Amplifier	Analog Devices	√							√H				√H						
		OP467	Operational Amplifier	Analog Devices	√							√H										
		RH1014MW	Operational Amplifier	Linear Technology	√							√H										
		RH108AH	Operational Amplifier	Linear Technology	√							√H										
		RH118H	Operational Amplifier	Linear Technology	√							√H										
		LM124AJ	Operational Amplifier	National Semiconductor	√							√H										
3, pp. 13-19	J. Wert	WS57C49C	EPROM	Waferscale Integration	√									√H								
		AT27C1024	EPROM One Time Programmable	Atmel	√							√H										
		87C196	Microprocessor	Intel	√						√H			√H								
		80860	Microprocessor	Intel	√						√H			√H								
		OFM-1024	Optical Time Domain Reflectometer	Opto-Electronics Inc.	√						√P		√P									
		AD9850	Direct Digital Synthesis	Analog Devices	√						√H			√H								
4, pp. 20-25	J. Wert		LET Adjustment for Die Overlayers																		√	
5, pp. 26-35	M. O'Bryan	Culprit 8051	Microprocessor	IAµE	√						√H		√H	√H								
		P80C3224	Microprocessor	Intel	√						√H,P		√H,P	√H								
		DS80C320	Microprocessor	Dallas Semiconductor	√						√H,P		√H,P	√H								
		OPA128	Operational Amplifier	Burr-Brown	√							√H		√H								
		IFN423	FET	InterFet Corporation	√							√H		√H								
		SG1526	Pulse Width Modulator	Microsemi	√							√H		√H								
		LXA0387	G12 Process	LSI Logic	√						√H			√H								
		LXA0381	G12 Process	LSI Logic	√						√H			√H								
		Test structure	4Mb Flash Si Nano Crystal	Freescale	√						√H					√H						
		LS2805S	DC-DC Converter	International Rectifier	√							√H		√H	√H							
		RP21002	Solid State Power Controller	Data Devices Corporation	√							√H		√H	√H							
		RP21005	Solid State Power Controller	Data Devices Corporation	√							√H		√H	√H							
		RP210010	Solid State Power Controller	Data Devices Corporation	√							√H		√H	√H							
		53278	Solid State Power Controller	Micropac	√							√H		√H								
		LTC1419	14 bit ADC	Linear Technology	√						√H			√H								
		7872	14 bit ADC	Maxwell	√						√H			√H								
		MAX529	8 bit DAC	Maxim	√							√H		√H								
		XC2VP7	FPGA	Xilinx	√						√H		√H	√H								
		54ACTQ16245	Transceiver	National Semiconductor	√							√H		√H								
		EP1S25	FPGA	Altera	√						√H			√H								
		UT54LVDS031	Transmitter	Aeroflex	√							√H										
		UT54LVDS032	Receiver	Aeroflex	√							√H										
		28C010	EEPROM	Maxwell	√						√H			√H								
		HN58V1001	EEPROM	Renesas	√						√H			√H								
		Test structure	256M SDRAM	Maxwell	√									√H								
6, pp. 36-41	F. Irom	LTC1604	16 bit ADC	Linear Technology	√									√H								
		LTC1609	16 bit ADC	Linear Technology	√									√H								
		LTC1595	16 bit DAC	Linear Technology	√									√H								
		LTC1864	16 bit ADC	Linear Technology	√									√H								
		TC4423	Power MOSFET Driver	Microchip Technology	√									√H								
		DG412	Analog Switch	Maxim	√									√H								
		DG413	Analog Switch	Maxim	√									√H								
		AD9858	Direct Digital Synthesis	Analog Devices	√									√H								
		CY23FS08	Buffer	Cypress Semiconductor	√									√H								
		VPC1	Crystal Oscillator	VITE	√									√H								
7, pp. 42-45	D. Hiemstra	SMJ320C6701	Digital Signal Processor	Texas Instruments	√				√		√P											
8, pp. 46-50	D. Hiemstra	XC2V1000	FPGA	Xilinx	√						√P		√P									
9, pp. 51-56	F. Chayab	XC2VP4	FPGA	Xilinx	√						√P		√P									
10, pp. 57-64	R. Koga	A54SX32A(MEC)	FPGA	Actel	√						√H,P	√H,P										
		A54SX32A(UMC)	FPGA	Actel	√						√H,P	√H,P		√H								
		A54SX72A(MEC)	FPGA	Actel	√						√H,P	√H,P	√H									
		A54SX72A(UMC)	FPGA	Actel	√				√		√H,P	√H,P										
		A1460A	FPGA	Actel	√						√H											
		A500K130	FPGA	Actel	√								√H									
11, pp. 65-69	H. Rufenacht	TSP603r	Microprocessor	Atmel	√						√P											
12, pp. 70-78	R. Joshi	SMV320C6701	Digital Signal Processor	Texas Instruments	√						√H											
13, pp. 79-84	J. Ampe	ADS7816	12 bit ADC	Burr-Brown	√									√H								
		MAX189	12 bit ADC	Maxim	√									√H								
		MAX194	14 bit ADC	Maxim	√									√H								
		MAX145	12 bit ADC	Maxim	√		√				√H			√H								
		MAX1241	12 bit ADC	Maxim	√									√H								
		AD7475	12 bit ADC	Analog Devices	√									√L								
		MAX5121	12 bit DAC	Maxim	√		√				√H,L			√H,L								
		MAX5131	13 bit DAC	Maxim	√						√L			√L								
		MAX5133	13 bit DAC	Maxim	√						√L			√L								
		TLV5636	12 bit DAC	Texas Instruments	√						√L			√L								
		LT1453	12 bit DAC	Linear Technology	√						√L			√L								
		LT1659	12 bit DAC	Linear Technology	√						√L			√L								
		AD5320	12 bit DAC	Analog Devices	√						√L			√L								
14, pp. 85-92	J. Howard	Culprit 8051	Microprocessor	IAµE							√H		√H	√H								
		8052 MCS-51	Microprocessor	Dallas Semiconductor							√H		√H	√H								
		8052	Microprocessor	Intel							√H		√H	√H								
15, pp.93-97	C. Hafer	RadClock	Clock Generator	Aeroflex	√		√					√H		√H								
16, pp. 98-101	M. Hartwell	ASIC Library Element	LVDS Receiver											√H								
		ASIC Library Element	LVDS Driver											√H								
		ASIC Library Element	Phase Lock Loop									√H		√H								
17, pp. 102-109	J. Lauenstein		Radiation Belt Model																			√
18, pp. 110-116	S. Kotntz	ISS MDM	DRAM			√					√											√
19, pp. 117-121	B. Haugerud	Test structure	0.12 and 0.24 µm nFET of SiGe 8HP	IBM	√				√													
20. pp. 122-126	V. Re	Test structure	0.13 µm CMOS HCNOS9	STMicroelectronics	√		√															
21, pp. 127-131	T. Miyahira	LP2953	Low Dropout Voltage Regulator		√			√	√													
22. pp. 132-137	Y. Zong	ADM692	Microprocessor Supervisor	Analog Devices	√		√												√			
		MAX690	Microprocessor Supervisor	Maxim	√		√												√			
		MAX1232	Microprocessor Supervisor	Maxim	√		√												√			
		MAX6304	Microprocessor Supervisor	Maxim	√		√												√			
23, pp. 138-143	F. Franco	REF02	Voltage Reference	Analog Devices	√														√			
		REF02	Voltage Reference	Maxim	√														√			
		REF102	Voltage Reference	Texas Instruments	√														√			
		ADR291	Voltage Reference	Analog Devices	√														√			
		ADR420	Voltage Reference	Analog Devices	√														√			
		ADR430	Voltage Reference	Analog Devices	√														√			
24. pp. 144-148	R. Chavez	LP2951	Voltage Regulator	National Semiconductor	√			√														
		LM2941	Voltage Regulator	National Semiconductor	√			√														
		OP97	Operational Amplifier	Analog Devices	√			√														
		DAC8413	12 bit DAC	Analog Devices	√			√														
		HYSE117RH	Voltage Regulator	Intersil	√			√														
		RH137	Voltage Regulator	Linear Technology	√			√														
25. pp. 149-155	D. Cochran	MAX529	8 bit DAC	Maxim	√		√															
		AD574	12 bit DAC	Analog Devices	√		√															
		AD7545	12 bit ADC	Analog Devices	√		√															
		AD7846SQ	16 bit ADC	Analog Devices	√		√															
		OP27	Operational Amplifier	Analog Devices	√			√														
		OP27A	Operational Amplifier	Analog Devices	√			√														
		OP200	Operational Amplifier	Analog Devices	√			√														
		OP42AZ	Operational Amplifier	Analog Devices	√			√														
		OP400	Operational Amplifier	Analog Devices	√			√														
		OP77	Operational Amplifier	Analog Devices	√			√														
		AD822	Operational Amplifier	Analog Devices	√			√														
		AD744	Operational Amplifier	Analog Devices	√			√														
		AFL2903R3S	DC-DC Converter	Advanced Analog	√		√															
		MAX724ECK	Switchmode Regulator	Maxim	√		√															
		54ACTQ16245	Transceiver	National Semiconductor	√		√															
		HN58C1001T15	EEPROM	Renesas	√		√															
		AD584	Voltage Reference	Analog Devices	√			√														
		LXA0387	ASIC 512K SRAM	LSI Logic	√		√															
		C-2 LED Custom	LED InGaN blue	Micropac	√													√				
		TCM405 Custom	LED GaN UV	Micropac	√													√				
		62087-301	LED	Micropac	√													√				
		61055-305	PT Encoder	Micropac	√													√				
26, pp. 156-162	P. Layton	KM29N3200	32M Flash	Samsung	√						√H		√H									
		48SD1616	256M SDRAM	Maxwell	√		√							√H								
		9240LP	14 bit ADC	Maxwell	√		√															
		8143	12 bit DAC	Maxwell	√		√															
		Si9435	MOSFET	Fairchild	√		√															
		7545A	12 bit DAC	Maxwell	√		√															
		7809LP	16 bit DAC	Maxwell	√		√															
		28C010T	1M EEPROM	Maxwell	√		√															
27, pp. 163-169	P. Lee	KAI-2000M	Charge Coupled Device	Kodak	√		√											√				
28, pp. 170-174	R. Lowell	H-1RG	PIN Diode Array	Rockwell Scientific Company	√		√											√				
29, pp. 175-178	E. Cascio		NPTC proton beam properties																	√		

Once the paper(s) with the response data required has been located it is the radiation effects engineer's responsibility to perform a detailed review to establish applicability.