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Paper No., Page No.	First Author	Part No.	Type	Manufacture	Data		Total Ionizing Dose				Single Event Effects							Displacement Damage		Facilities	Standard	Environment
					Terrestrial	Flight	Co60	ELDRS	Protons	Electrons	SEU	SET	SEFI	SEL	SEB	SEGR	Dose Rate	Protons	Neutrons			
1, pp. 1-5	R. Edwards																				√	
2, pp. 6-9	P. Layton	DAC5675	14 bit 400MSPS DAC	Texas Instruments	√						√			√								
		AT49LV321T-90T1	32Mbit Nor Flash	Atmel	√									√								
		AM29DL620G	64Mbit Nor Flash	Advanced Micro Devices	√									√								
		STM58LW032DN	32Mbit Nor Flash	ST Micro	√									√								
		MBM29DL640E	64Mbit Nor Flash	Fujitsu	√									√								
		TC58FVM6	64Mbit Nor Flash	Toshiba	√									√								
		TC58FVM7	128Mbit Nor Flash	Toshiba	√									√								
		HC27C101A	1Mbit PROM	Hitachi	√		√															
		DAC5675	14 bit 400MSPS DAC	Texas Instruments	√		√															
		74LVTH162240	Octal Driver/Buffer	Texas Instruments	√		√															
3, pp. 10-18	M. O'Bryan	54AHCT32	OR Gate	Texas Instruments	√									√								
		54BCT125	Bus Buffer Gate	Texas Instruments	√									√								
		SN54LVT162244A	Buffer/Driver	Texas Instruments	√									√								
		SN54BCT244W	Line Driver	Texas Instruments	√									√								
		SNJ54ABT16244WD	Buffer/Driver	Texas Instruments	√									√								
		SN54LVT16245B	Buffer/Driver	Texas Instruments	√									√								
		SN64BCT126A	Bus Buffer Gate	Texas Instruments	√									√								
		SN64BCT244	Buffer/Driver	Texas Instruments	√									√								
		SN64BCT245	Transceiver Tri-State Output	Texas Instruments	√									√								
		SN74LVT244B	Buffer/Driver	Texas Instruments	√									√								
		SN74LVCC3245	Bus Transceiver	Texas Instruments	√									√								
		IDT74LVC2244A	Buffer/Driver	IDT	√									√								
		HX6228	128k x 8 SRAM	Honeywell	√							√										
		Test Structure	Chalcogenic RAM	BAE Systems	√							√		√								
		Test Structure	512k x 8 NVRAM, Floating Gate	Motorola	√						√			√								
		Test Structure	512k x 8 NVRAM, SiNano	Motorola	√						√			√								
		M65656	32k x 8 SRAM	Matra	√						√											
		IDT71256	256k bit Memory	IDT	√						√											
		T36T-GAFE7	ASIC	Agilent	√						√			√								
		T36T-GAFE5G	ASIC	Agilent	√						√			√								
		T36T-GARC3	ASIC	Agilent	√							√	√	√								
		MAX145	12 bit ADC	Maxim	√						√		√									
		MAX494	Operational Amplifier	Maxim	√							√		√								
		MAX5121	12 bit DAC	Maxim	√						√		√									
		MSK5275	Voltage Regulator	MS Kennedy	√							√		√								
		LM117	Voltage Regulator	National Semiconductor	√							√		√								
		UCC1808	Pulse Width Modulator Controller	Unitrode	√							√		√								
		DVFL286R7S-R	DC-DC Converter	Virginia Power Technology	√							√		√								
		DVTR2815D-R	DC-DC Converter	Virginia Power Technology	√							√		√								
		MAX1523	Switching Regulator	Maxim	√							√		√								
		MAX1809	Switching Regulator	Maxim	√							√										
		MAX1847	Switching Regulator	Maxim	√									√								
		MAX1951	Switching Regulator	Maxim	√							√										
		MAX724	Switching Regulator	Maxim	√							√		√								
		MAX726	Switching Regulator	Maxim	√							√		√								
		AFL2803RS3	DC-DC Converter	International Rectifier	√						√	√				√						
		Test Structure	5AMSTC SiGe	IBM	√						√											
		Test Structure	SiGe	JAZZ	√						√											
		Test Structure	Shift Register	IBM	√						√											
		PE926C31	RS422 Driver	Peregrine	√							√										
		PE926C32	RS422 Receiver	Peregrine	√							√										
		TSS901E	1355 Protocol	Atmel	√						√		√	√								
		UT54LVDS217	Serializer	Aeroflex	√							√										
		S2064	Transceiver	AMCC	√						√			√								
		RHrFPGA	FPGA	Honeywell	√						√											
		CD21CD	Solid State Relay	Teledyne	√							√		√								
		OMR9701	Solid State Relay	International Rectifier	√						√											
		JANS2N2222A	NPN Bipolar Transistor	Microsemi	√							√										
		HV583	High Voltage Driver	SuperTex	√						√			√								
		80387	Microprocessor	Intel	√									√								
		XA-16	ASIC	AMS	√									√								
		TC55257	32k x 8 SRAM	Toshiba	√									√								
		T36T-GTFE	ASIC	Agilent	√									√								
		T36T-GTRC	ASIC	Agilent	√									√								
		AD7675	16 bit ADC	Analog Devices	√									√								
		ADS8323	Communication Part	Texas Instruments	√		√		√					√								
4, pp. 19-25	D. Cochran	SN54LVC162244A	Buffer/Driver	Texas Instruments	√		√		√													
		SN54LVC162245A	Transceiver	Texas Instruments	√		√															
		CD54HC4052	Multiplexer/Demultiplexer	Texas Instruments	√		√															
		TC55257	32k x 8 SRAM	Toshiba	√		√															
		T36T-GAFE7	ASIC	Agilent	√		√															
		T36T-GARC3	ASIC	Agilent	√		√															
		ADC1175	8 bit ADC	National Semiconductor	√		√															
		MAX145	12 bit ADC	Maxim	√		√															
		MAX494	Operational Amplifier	Maxim	√		√															
		MAX5121	12 bit DAC	Maxim	√		√															
		MAX6325	Voltage Reference	Maxim	√		√															
		AD524	Instrumentation Amplifier	Analog Devices	√		√															
		AD587	Voltage Reference	Analog Devices	√		√															
		OP27	Operational Amplifier	Analog Devices	√		√															
		OP200	Operational Amplifier	Analog Devices	√		√															
		LT1024	Operational Amplifier	Linear Technology	√		√															
		UCC1806	Pulse Width Modulator Controller	Unitrode	√		√															
		OP420	Operational Amplifier	Analog Devices	√		√															
		DAC8508	8 bit DAC	Analog Devices	√		√															
		AFL2803RS3	DC-DC Converter	International Rectifier	√		√															
		F1D5	Optocoupler	Fairchild	√		√															
		HSDL-4420	Infrared Emitter	Agilent	√		√															
		HSDL-5240	Infrared PIN Diode	Agilent	√		√															
		Test Structure	5AM SiGe	IBM	√				√													
		Test Structure	7HP SiGe, Shift Regsiter	IBM	√				√													
		Test Structure	8HP SiGe	IBM	√				√													
		Test Structure	9HP SiGe	IBM	√				√													
		UT54LVDS217	Serializer	Aeroflex	√				√													
		RHrFPGA	FPGA	Honeywell	√				√													
		OMR9701	Solid State Relay	International Rectifier	√				√													
		SNJ14AL16	JFET	Interfet	√		√															
		WFC IV	CCD	e2v Technologies	√				√													
		SNAP	p-Channel CCD	Dalsa	√				√													
5, pp. 26-31	D. Meshel	AD524SD	Instrumentation Amplifier	Analog Devices	√			√														
		ISYE-1009RH	Shunt Regulator Diode	Intersil	√			√														
		ISL-72991RH	Low Dropout Regulator	Intersil	√			√														
		IS-139ASRH	Voltage Comparator	Intersil	√			√														
		RH1011MW	Voltage Comparator	Linear Technology	√			√														
		RH1013MW	Operational Amplifier	Linear Technology	√			√														
		OMR-185	Low Dropout Regulator	International Rectifier	√			√														
		HS-117	Voltage Regulator	Intersil	√			√														
		UC-1845	Pulse Width Modulator	Texas Instruments	√			√														
6, pp. 32-35	B. Posey	CLC401AJ	Operational Amplifier	National Semiconductor	√		√	√											√			
		JANS1N6642	Diode	Microsemi	√		√	√											√			
		AD1672-713F	12 bit ADC	Analog Devices	√		√	√											√			
		LM6161WG	Operational Amplifier	National Semiconductor	√		√	√											√			
		HS9-565ARH-Q	12 bit DAC	Intersil	√		√	√											√			
		HS9-117RH-Q	Voltage Regulator	Intersil	√		√	√											√			
		OP484AM/QMLR	Operational Amplifier	Analog Devices	√		√	√											√			
7, pp.. 36-41	R. Rivas	AD823AR	Operational Amplifier	Analog Devices	√		√	√														
		LM136-2.5	Reference Diode	National Semiconductor	√		√	√														
		LTC1417AGC	14 bit ADC	Linear Technology	√		√	√														
		MC35072	Operational Amplifier	Motorola	√		√	√														
		AD590	Temperature Sensor	Analog Devices	√		√	√														
		DG304	Analog Switch	Siliconix	√		√	√														
8, pp. 42-46	J. Seiler	LM124	Operational Amplifier	National Semiconductor	√		√	√														
9, pp. 47-53	R. Koga	72V3610	128kx36 FIFO	IDT	√						√		√	√								
		SN74V3690	32kx36 FIFO	Texas Instruments	√						√		√									
		FQV36110	128kx36 FIFO	HBA	√						√											
		RC28F640C3BC	64Mbit Flash	Intel	√						√		√									
		RC28F320C3BC	32Mbit Flash	Intel	√						√		√									
10, pp. 54-57	C. Poivey	HM628128	128kx8 SRAM	Hitachi		√					√											
11, pp. 58-61	T. Langley	TC58DVG02A1	1Gb, NAND Flash	Toshiba	√						√		√	√								
12, pp.62-67	S. Guertin	HY57V654020B	SDRAM	Hynix/Hyundai	√								√									
13, pp. 68-71	W. Wester	K9K2G08U0M	2Gb, NAND Flash	Samsung	√				√		√											
14, pp. 72-78	J. George	XQ1701L	1 Mbit PROM	Xilinx	√								√	√								
		XQR1701L	1 Mbit PROM	Xilinx	√								√	√								
		XQ17V16	16 Mbit PROM	Xilinx	√						√		√									
		XQR17V16	16 Mbit PROM	Xilinx	√						√		√									
15, pp. 79-84	D. Hiemstra	XC2V1000	SRAM FPGA	Xilinx	√				√		√											
		XC3S50	SRAM FPGA	Xilinx	√				√		√											
16, pp. 85-87	C. Hafer	Eclipse	FPGA	Aeroflex	√		√				√			√								
17, pp. 88-90	S. Clark	EP1C6Q240C8	SRAM FPGA	Altera	√		√							√								
18, pp. 91-95	F. Franco	ADG212	Analog Switch	Analog Devices	√														√			
		ADG412	Analog Switch	Analog Devices	√														√			
		DG212	Analog Switch	Maxim	√														√			
		MAX332	Analog Switch	Maxim	√														√			
		DG212	Analog Switch	Vishay	√														√			
		DG412	Analog Switch	Vishay	√														√			
19, pp. 96-103	N. Nowlin		Resolver to Digital Converter	Custom design	√		√				√			√				√				
20, pp. 104-109	M. Hartwell		ASIC Library	Aeroflex	√		√				√			√				√				
21, pp. 110-114	B. Pritchard		IEEE 1394 Firewire ASICs	Custom designs							√			√								
22, pp. 115-119	S. Kniffin	PE926C31	RS-422 Driver	Perigrine							√											
		PE926C32	RS-422 Reciever	Perigrine							√											
		HX6228	SRAM	Honeywell							√											
		RHrFPGA	FPGA	Honeywell							√											
23, pp. 120-124	C. Underwood	GP4020	GPS Reviever	Zarlink Semiconductor	√		√				√		√	√								
24, pp. 125-129	O. Coumar	ADXL150	MEMS Acclerometer	Analog Devices	√		√					√		√								
		SCA 600	MEMS Acclerometer	VIT	√		√															
25, pp. 130-136	T. Sumita		Various solar cells			√			√	√												
26, pp. 137-144	D. Soprea		Quantum-Well Semicinductor Laser		√		√															
27, pp. 145-150	B. von Przewoski		IUCF proton beam properties																	√		
28, pp. 151-155	E. Cascio		NPTC proton beam properties																	√		
29, pp. 156-159	M. McMahan		LBNL heavy ion beam properties																	√		
30, pp. 160-162	A. Prokofiev		TSL neutron 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.