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Variant: 001

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SAT0097 Xilinx Ultrascale

Designator	Description	Manufacturer	PartNumber	Quantity
	Printed Circuit Board	Any	SAT0097	1
	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E104KA87D	10
C12, C15,				
C30, C37,				
C40, C53,				
C56, C59				
C3	CAP, CERM, 220pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H221KA01D	1
C4, C32	CAP, CERM, 4700pF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E472KA01D	2
C5, C27,	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	MuRata	GRM155R61A105KE15D	9
C29, C33,				
C50, C52,				
C54, C67,				
C69				
	CAP, CERM, 22uF, 16V, +/-20%, X5R, 1206	MuRata	GRM31CR61C226ME15L	9
C9, C10,				
C11, C34,				
C35, C36				
040, 000	OAD OFDM 45:5 50V 1/50V 000/ND0 0400	M. Dt.	ODMASS OALIAS OA DA	
	CAP, CERM, 15pF, 50V, +/-5%, C0G/NP0, 0402	MuRata	GRM1555C1H150JA01D	2
	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H222KA01D	2
	CAP, TA, 560uF, 2V, +/-20%, 0.003 ohm, SMD	Panasonic	EEF-GX0D561L	4
C41, C42	CAD CEDM 220°E EOV 1/E0/ COC/NDO 0402	MuRata	GRM1555C1H331JA01D	3
C18, C43, C60	CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0402	INIURala	GRIVI 1995C 1193 13AU ID	<u>ه</u>
	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	MuRata	GRM32ER60J107ME20L	12
C19, C20,	CAF, CERWI, 10001; 0.5V, 17-2070, ASIX, 1210	iviuixata	GIVINGELIVOOG 107 WILZOL	12
C23, C24,				
C44, C45,				
C46, C47,				
C61, C62				
	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H102KA01D	2
	CAP, CERM, 4700pF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E472KA01D	2
C31	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0603	MuRata	GRM188R61E104KA01D	1
C55	CAP, CERM, 22uF, 10V, +/-20%, X5R, 0805	MuRata	GRM21BR61A226ME44	1
C57	CAP, CERM, 33pF, 50V, +/-5%, C0G/NP0, 0402	MuRata	GRM1555C1H330JA01D	1
C58	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H332KA01D	1
C65, C66	CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H152KA01D	2
D1	Diode, Schottky, 30V, 0.2A, SOD-323	ON Semiconductor	BAT54HT1G	1
J1	Connector, F, 80 pin, SMT, Vertical Header, .8 mm pitch	Samtec	BSE-040-01-L-D-A	1
J2	Connector, Powerstrip F, 8 pin	Samtec	MPS-08-7.70-01-L-V	1
L1	Inductor, Shielded Drum Core, Ferrite, 330nH, 40A,	Wurth Elektronik eiSos	744301033	1
	0.00032 ohm, SMD			
L2	Inductor, Shielded Drum Core, Powdered Iron, 820nH,	Vishay-Dale	IHLP2525CZERR82M01	1
	13A, 0.0067 ohm, SMD			
L3	Inductor, Shielded Drum Core, Powdered Iron, 2.2uH,	Vishay-Dale	IHLP2020CZER2R2M01	1
	5.8A, 0.0292 ohm, SMD	D 1	TUT 44 400 40	
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H	Brady	THT-14-423-10	1
D4 D0	- 10,000 per roll	Violani, Dala	ODOMO 4000KOOFKED	
R1, R2	RES, 3.92k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04023K92FKED	2
	RES, 10 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040210R0JNED	3
R50				

Designator	Description	Manufacturer	PartNumber	Quantity
R4, R29, R51	RES, 100k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402100KJNED	3
R5, R6, R30, R52	RES, 10.0k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040210K0FKED	4
R7, R16, R32, R41,	RES, 49.9 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040249R9FKED	6
R54, R63	250 450 404 0 000 404) "		
R8, R33 R9, R34,	RES, 17.8k ohm, 1%, 0.063W, 0402 RES, 5.1 ohm, 5%, 0.063W, 0402	Vishay-Dale Vishay-Dale	CRCW040217K8FKED CRCW04025R10JNED	3
R9, R34, R56	RES, 5.1 OHH, 5%, 0.003VV, 0402	Visitay-Date	CRCW04025R IUJNED	3
R10, R35, R39, R57	RES, 10.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-103-B-T5	4
R11, R36	RES, 0.33 ohm, 1%, 0.25W, 1206	Panasonic	ERJ-8RQFR33V	2
	RES, 1.00k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K00FKED	2
R13, R15, R38, R40, R60, R62	RES, 100 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402100RFKED	6
R14	RES, 15.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-153-B-T5	1
R17	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	1
R18, R42, R49, R53	RES, 36.5k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040236K5FKED	4
R19, R43, R48	RES, 54.9k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040254K9FKED	3
R20, R44, R47	RES, 84.5k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040284K5FKED	3
R21, R45, R46	RES, 130k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402130KFKED	3
R22, R23, R24	RES, 100k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100KJNEA	3
R25	RES, 10k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040210K0JNED	1
R26	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04020000Z0ED	1
R31	RES, 15.4k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040215K4FKED	1
R55	RES, 8.66k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04028K66FKED	1
R58	RES, 1.00 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031R00FKEA	1
R59	RES, 499 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402499RFKED	1
R61	RES, 4.99k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-4991-B-T5	1
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	Test Point, Miniature, SMT	Keystone	5015	12
U1	LinCMOS Timer, D0008A	Texas Instruments	TLC555CD	1
	3.0-V TO 20-V PMBus SYNCHRONOUS BUCK CONTROLLER, RHL0024A	Texas Instruments	TPS40400RHL	3
U3, U7	Synchronous Buck NexFET Power Block, DQY0008A	Texas Instruments	CSD86360Q5D	2
U4, U8	IC, Dual, 14 Ohms SP4T Analog Switch	TI	TS3A5017RGY	2
U5	Power Sequencer, 6-pin SOT-23	National Semiconductor	LM3880MF-1AA	1
U10	MOSFET, N/P-CH, 25V, 20A, 3.4x1.4x3.4mm	Texas Instruments	CSD86330Q3D	1

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