Altera Arria V SoC Power Supply

Docignator	Description	Manufacturer	PartNumber	Quantity
Designator C1	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603	MuRata	GRM188R61E105KA12D	Quantity
C1, C25,	CAP, CERM, 10F, 25V, +/-10%, X5R, 0005	MuRata	GRM188R61E104KA01D	4
C44, C55	CAF, CEINN, 0.101, 200, 17-1070, XON, 0000			
C2, C3	CAP, AL, 22uF, 16V, +/-20%, 1.8 ohm, SMD	Panasonic	EEE-FC1C220R	2
C4, C5, C6,	CAP, CERM, 47uF, 16V, +/-10%, X5R, 1210	MuRata	GRM32ER61C476KE15L	8
C7, C8, C9,				
C10, C11				
,	CAP, TA, 330uF, 2V, +/-20%, 0.006 ohm, SMD	Panasonic	EEF-SX0D331XE	2
	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	MuRata	GRM32ER60J107ME20L	14
C16, C17,				
C18, C26,				
C27, C28,				
C45, C46,				
C47, C56,				
C57, C58				
C19, C38, C49	CAP, CERM, 4.7uF, 25V, +/-10%, X7R, 1206	TDK	C3216X7R1E475K	3
	CAP, AL, 100uF, 25V, +/-20%, 30 ohm, SMD	Panasonic	EEHZA1E101XP	3
C20, C39, C50	UNI , AL, 10001 , 20V, 7/20/0, 30 01111, 314D			5
	CAP, AL, 220uF, 2.5V, +/-20%, 0.009 ohm, SMD	Panasonic	EEF-UD0E221LR	3
C51				5
	CAP, CERM, 22uF, 25V, +/-10%, X5R, 1210	MuRata	GRM32ER61E226KE15L	9
C24, C41,		in a lata		Ű
C42, C43,				
C52, C53,				
C54				
C30	CAP, TA, 68uF, 16V, +/-20%, 0.05 ohm, SMD	Panasonic	16TQC68MYF	1
C31	CAP, CERM, 47uF, 16V, +/-20%, X5R, 1210	MuRata	GRM32ER61C476ME15L	1
C33	CAP, TA, 220uF, 6.3V, +/-20%, 0.009 ohm, SMD	Kemet	T520D227M006ATE009	1
C34, C35,	CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 1210	MuRata	GRM32ER60J476ME20L	4
C36, C37				
	CAP, CERM, 0.01uF, 50V, +/-5%, X7R, 0603	Kemet	C0603C103J5RACTU	6
C62, C66,				
C74, C80				
	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	MuRata	GCM188R71H104KA57B	3
C75				
C65	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A101JAT2A	1
C67, C69,	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	Kemet	C0603C106M9PACTU	6
C70, C77,				
C78, C79	OAD OEDM 4000-E 400V/ 1/ 5% V7D 0000			4
C68	CAP, CERM, 1000pF, 100V, +/-5%, X7R, 0603	AVX		1
C71, C72,	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	MuRata	GRM21BR61A106KE19L	3
C73 C76	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A100JAT2A	1
C76	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603 CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C2A101JA01D	1
	Diode, Schottky, 30V, 0.2A, SOT-23	Diodes Inc.	BAT54-7-F	6
D1, D2, D3, D4, D5, D6	Divide, Ocholiky, JUV, U.2A, JUT-2J			0
D7, D3, D0				
D7	Diode, Zener, 5.1V, 300mW, SOD-523	Diodes Inc.	BZT52C5V1T-7	1
		Diodeo inc.		· · ·

Designator Description Manufacturer PartNumber J1, J2, J3, J4, J5, J6, J7, J8, J9, J10 TERMINAL BLOCK 5.08MM VERT 2POS, TH On-Shore Technology ED120/2DS R1, R4, R10, R13 RES, 10.0 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060310R0FKEA R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603483RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA R12 RES, 90.9k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060390K9FKEA	Quantity 10 4 1 1 1 1 1 2
J4, J5, J6, J7, J8, J9, J10 R1, R4, RES, 10.0 ohm, 1%, 0.1W, 0603 R1, R4, RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060310R0FKEA R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 1 1 2
J7, J8, J9, J10 J10 R1, R4, R1, R4, R1, R4, R10, R13 RES, 10.0 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060310R0FKEA R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 1 1 2
R1, R4, R10, R13 RES, 10.0 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060310R0FKEA R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 1 1 2
R10, R13 Vishay-Dale CRCW06031K74FKEA R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 1 1 2
R3 RES, 1.74k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW06031K74FKEA R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 2
R5 RES, 1.43k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-071K43L R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 1 2
R6 RES, 487k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603487KFKEA R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 1 2
R7 RES, 49.9 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060349R9FKEA R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	1 2
R8, R11 RES, 453 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603453RFKEA R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	2
R9 RES, 158k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603158KFKEA	
R12 RES 90.9k ohm 1% 0.1W 0603 Vishay-Dale CRCW060390K9EKEA	1
	1
R14 RES, 953 ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603953RFKEA	1
R15 RES, 487k ohm, 1%, 0.1W, 0603 Yageo America RC0603FR-07487KL	1
R16, R17, RES, 1.0k ohm, 5%, 0.1W, 0603 Vishay-Dale CRCW06031K00JNEA	5
R18, R19,	
R22	
R20, R21 RES, 10k ohm, 5%, 0.1W, 0603 Vishay-Dale CRCW060310K0JNEA	2
R23, R24 RES, 10.0k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060310K0FKEA	2
R25 RES, 100k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW0603100KFKEA	1
R26 RES, 10 ohm, 5%, 0.1W, 0603 Vishay-Dale CRCW060310R0JNEA	1
R27, R28, RES, 100k ohm, 5%, 0.1W, 0603 Vishay-Dale CRCW0603100KJNEA	3
R29	
R30 RES, 68.1k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060368K1FKEA	1
R31 RES, 12.1k ohm, 1%, 0.1W, 0603 Vishay-Dale CRCW060312K1FKEA	1
TP1 Test Point, Multipurpose, Orange, TH Keystone 5013	1
TP2 Test Point, Multipurpose, Red, TH Keystone 5010	1
U1 20A SIMPLE SWITCHER(R) Power Module with 3.0V- Texas Instruments LMZ31520RLG	1
14.5V Input, RLG0072A	
U2, U4, U5 10A SIMPLE SWITCHER Power Module with 2.95V- Texas Instruments LMZ31710RVQ	3
17V Input and Current Sharing in QFN Package,	
RVQ0042A	
U3 3A SIMPLE SWITCHER Power Module with 4.5V-14.5V Texas Instruments LMZ31503RUQ	1
Input in QFN Package, RUQ0047A	
U6 IC, Single Schmitt-Trigger Inverter TI SN74LVC1G14DCK	1
U7 2-A, 6-µVRMS, RF, LDO Voltage Regulator, RGR0020A Texas Instruments TPS7A8300RGR	1
U8 IC, Sink/Source DDR Termination Regulator TI TPS51200DRC	1
U9 Power Sequencer, 6-pin SOT-23 TI LM3880MF-1AA	1

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