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POE Input, 5V/10A Converter						
Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
C47	1	470pF	CAP, CERM, 470pF, 50V, +/-5%, C0G/NP0, 0603	603	C1608C0G1H471J	TDK
C1, C2, C3, C4, C9, C10, C11, C12, C14, C15, C16, C17, C18, C19, C20, C21, C44	17	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	603	C1608X7R1H102K	TDK
C23, C24, C26, C27	4	1000pF	CAP, CERM, 1000pF, 100V, +/-10%, X7R, 0603	603	C1608X7R2A102K	TDK
C5, C6, C7, C8	4	0.01uF	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	603	C1608X7R2A103K	TDK
C45	1	0.015uF	CAP, CERM, 0.015uF, 50V, +/-10%, X7R, 0603	603	GRM188R71H153KA01D	MuRata
C40	1	0.022uF	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	603	C1608X7R1H223K	TDK
C43	1	0.047uF	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	603	C1608X7R1E473K	TDK
C42	1	1uF	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	603	C1608X5R1A105K	TDK
C25	1	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	805	C2012X7R2A104K	TDK
C46	1	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0805	805	C2012X5R1A225K/0.85	TDK
C29, C30, C31	3	2.2uF	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210	GRM32ER72A225KA35L	MuRata
C33, C34	2	100uF	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210	C3225X5R0J107M	TDK
C35	1	0.047uF	CAP, CERM, 0.047uF, 250V, +/-10%, X7R, 1206	1206	C3216X7R2E473K	TDK
C36, C41	2	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	603	C1608X7R1E104K	TDK
C38	1	47pF	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	603	C1608C0G1H470J	TDK
C28, C37	2	4700pF	CAP, CERM, 4700pF, 2000V, +/-10%, X7R, 1812	1812	1812GC472KA1	AVX
C13	1	1000pF	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	1812	1812GC102KA1	AVX
C39	1	47uF	CAP, AL, 47uF, 16V, +/-20%, 0.7 ohm, SMD	SMT Radial C	EEE-FK1C470UR	Panasonic
C22	1	47uF	CAP, AL, 47uF, 63V, +/-20%, 0.65 ohm, SMD	SMT Radial F	EEE-FK1J470P	Panasonic
C32	1	470uF	CAP, TA, 470uF, 6.3V, +/-10%, 0.035 ohm, SMD	7343-20	6TPE470MAZU	Sanyo
D1, D2, D3, D4, D14, D15, D16, D17	8	8.2V	Diode, Zener, 8.2V, 200mW, SOD-323	SOD-323	MMSZ5237BS-7-F	Diodes Inc.
D27	1	10V	Diode, Zener, 10V, 500mW, SOD-123	SOD-123	MMSZ5240B-7-F	Diodes Inc.
D5, D6, D7, D8, D9, D10, D11, D12, D13, D24, D25, D26	12		Diode, Switching, 100V, 0.2A, SOD-323	SOD-323	MMDL914-TP	Micro Commercial Components
D18	1	58V	Diode, TVS, Uni, 58V, 600W, SMB	SMB	SMBJ58A-13-F	Diodes Inc.
D19	1		Diode, Schottky, 100V, 3A, SMC	SMC	B3100-13-F	Diodes Inc.

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D20, D21, D22, D23	4		Diode, Switching, 100V, 0.2A, SOD-123	SOD-123	MMSD4148T1G	ON Semiconductor
J1, J2	2		RJ-45, Right Angle, No LED, tab up	16.26x14.54x15.75	1-406541-1	AMP
J3, J5, J8	3		Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	TSW-102-07-G-S	TSW-102-07-G-S	Samtec
J4	1		Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	TSW-104-07-G-S	TSW-104-07-G-S	Samtec
J6	1		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	OST
J7	1		TERMINAL BLOCK 5.08MM VERT 2POS	TERM_BLK, 2pos, 5.08mm	ED120/2DS	OST
L1, L2, L3, L4	4		2A Ferrite Bead, 500 ohm @ 100MHz, SMD	1206	MI1206L501R-10	Steward
L5	1	3.3uH	Inductor, Shielded, Composite, 3.3uH, 8.1A, 0.02 ohm, SMD	5.3x31.x5.5mm	XAL5030-332MEB	Coilcraft
L6	1	3.6uH	Inductor, Shielded E Core, Ferrite, 3.6uH, 25A, 0.0017 ohm, SMD	SER2013	SER2013-362MLB	Coilcraft
L7	1	2.2mH	Inductor, Shielded Drum Core, Ferrite, 2.2mH, 0.08A, 11 ohm, SMD	LPS5030	LPS5030-225MLB	Coilcraft
Q1, Q2	2		MOSFET, N-CH, 100V, 3.4A, 4.5x5x0.8mm	4.5x5x0.8mm	FDMQ8203	Fairchild Semiconductor
Q3, Q4, Q5, Q6	4		Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23	MMBT3904-7-F	Diodes Inc.
Q7, Q12	2		Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23	MMBTA42	Diodes Inc.
Q8, Q9, Q10, Q11	4		Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23	MMBT3906-7-F	Diodes Inc.
Q13	1		MOSFET, N-CH, 150V, 4.1A, SOIC-8	SOIC-8	FDS86242	Fairchild Semiconductor
Q14, Q17	2		MOSFET, N-CH, 40V, 100A, SON 5x6mm	SON 5x6mm	CSD18503Q5A	Texas Instruments
Q15	1		MOSFET, P-CH, -150V, -3A, QFN-8	QFN-8	FDMC2523P	Fairchild Semiconductor
Q16	1		MOSFET, N-CH, 150V, 6.7A, PQFN08A	PQFN08A	FDMS86250	Fairchild Semiconductor
Q18	1		Transistor, NPN, 100V, 1A, SOT-89	SOT-89	FCX493TA	Diodes Inc.
R27, R47	2	0	RES, 0 ohm, 5%, 0.1W, 0603	603	ERJ-3GEY0R00V	Panasonic
R35	1	10	RES, 10 ohm, 5%, 0.1W, 0603	603	CRCW060310R0JNEA	Vishay-Dale
R29	1	63.4	RES, 63.4 ohm, 1%, 0.1W, 0603	603	CRCW060363R4FKEA	Vishay-Dale
R9, R10, R11, R12	4	75	RES, 75.0 ohm, 1%, 0.1W, 0603	603	CRCW060375R0FKEA	Vishay-Dale
R28	1	90.9	RES, 90.9 ohm, 1%, 0.1W, 0603	603	CRCW060390R9FKEA	Vishay-Dale
R30	1	150	RES, 150 ohm, 1%, 0.1W, 0603	603	CRCW0603150RFKEA	Vishay-Dale
R49	1	665	RES, 665 ohm, 1%, 0.1W, 0603	603	CRCW0603665RFKEA	Vishay-Dale
R37	1	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	603	CRCW06031K00FKEA	Vishay-Dale
R43	1	1.18k	RES, 1.18k ohm, 1%, 0.1W, 0603	603	CRCW06031K18FKEA	Vishay-Dale
R52	1	1.50k	RES, 1.50k ohm, 1%, 0.1W, 0603	603	CRCW06031K50FKEA	Vishay-Dale
R51	1	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	603	CRCW06032K00FKEA	Vishay-Dale
R54	1	3.24k	RES, 3.24k ohm, 1%, 0.1W, 0603	603	CRCW06033K24FKEA	Vishay-Dale
R44	1	6.04k	RES, 6.04k ohm, 1%, 0.1W, 0603	603	CRCW06036K04FKEA	Vishay-Dale
R36, R41, R48, R50, R53	5	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	603	CRCW060310K0FKEA	Vishay-Dale
R23	1	24.9k	RES, 24.9k ohm, 1%, 0.1W, 0603	603	CRCW060324K9FKEA	Vishay-Dale
R39	1	60.4k	RES, 60.4k ohm, 1%, 0.1W, 0603	603	CRCW060360K4FKEA	Vishay-Dale

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R5, R6, R7, R8, R15, R16, R17, R18	8	66.5k	RES, 66.5k ohm, 1%, 0.1W, 0603	603	CRCW060366K5FKEA	Vishay-Dale
R42	1	75.0k	RES, 75.0k ohm, 1%, 0.1W, 0603	603	CRCW060375K0FKEA	Vishay-Dale
R45, R46	2	93.1k	RES, 93.1k ohm, 1%, 0.1W, 0603	603	CRCW060393K1FKEA	Vishay-Dale
R40	1	182k	RES, 182k ohm, 1%, 0.1W, 0603	603	CRCW0603182KFKEA	Vishay-Dale
R31	1	200k	RES, 200k ohm, 1%, 0.1W, 0603	603	CRCW0603200KFKEA	Vishay-Dale
R1, R2, R3, R4, R14, R19, R20, R21, R22	9	301k	RES, 301k ohm, 1%, 0.1W, 0603	603	CRCW0603301KFKEA	Vishay-Dale
R13	1	499k	RES, 499k ohm, 1%, 0.1W, 0603	603	CRCW0603499KFKEA	Vishay-Dale
R26, R56	2	11.3k	RES, 11.3k ohm, 1%, 0.125W, 0805	805	CRCW080511K3FKEA	Vishay-Dale
R34	1	499	RES, 499 ohm, 1%, 0.25W, 1206	1206	CRCW1206499RFKEA	Vishay-Dale
R33, R55	2	20k	RES, 20k ohm, 5%, 0.25W, 1206	1206	CRCW120620K0JNEA	Vishay-Dale
R38	1	0.1	RES, 0.1 ohm, 5%, 0.5W, 2010	2010	STD	STD
R32	1	0.47	RES, 0.1 ohm, 1%, 1W, 2010	2010	STD	STD
R24, R25	2	13.3k	RES, 13.3k ohm, 1%, 0.5W, 2010	2010	STD	STD
T1	1		Transformer, Dual Port, Fast EoP High Power	SO-24 WIDE 1mm pitch	TG111-HRPE10NYRL	Halo Electronics
T2	1		Transformer, Flyback, 85uH	26.75x32.65x13.60 mm	PA6418-BL	Coilcraft
T3	0	DNP	Transformer, PoE+, SMT	Transformer, SOIC-24 Wide	749022016	Wurth Elektronik eiSos
TP1	1		Test Point, TH, Multipurpose, White	Keystone5012	5012	Keystone
TP2, TP3, TP4, TP5, TP6	5		Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone
TP7	1		Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone
U1, U3	2		Opto-Isolator, 300-600% CTR	DIP-4	LTV-817DS	Lite-On
U5	1		Opto-Isolator, 80-160% CTR	DIP-4	LTV-817AS	Lite-On
U2	1		IC, IEEE 802.3at PoE High Power PD Controller	TPS2379DDA	TPS2379DDA	Texas Instruments
U4	1		Advanced Active Clamp PWM Controller with Current-Mode Control, -40 to +125 degC, 20-pin TSSOP (PW), Green (RoHS & no Sb/Br)	PW0020A	UCC2897APWR	Texas Instruments
U6	1		LOW-VOLTAGE ADJUSTABLE PRECISION SHUNT REGULATOR	DBV0005A	TLV431AIDBV	Texas Instruments

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