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Variant: 230VAC

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TPS92314-DIM

Designator	Quantity	Description	Manufacturer	PartNumber
C1	1	CAP FILM 0.15uF 630VDC RADIAL	Panasonic	ECW-F6104JL
C2	1	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	MuRata	GCM188R71H104KA57B
C3	1	CAP, Film, 0.033uF, 630V, +/-10%, TH	EPCOS Inc	B32921C3333K
C4	1	CAP, Film, 0.033uF, 630VDC, 20%, Radial	Vishay BC Components	BFC233920333
C5, C7	2	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	Murata Electronics North America	GRM32ER71H106KA12L
C6	1	CAP ALUM 680UF 35V 20% RADIAL	Panasonic Electronic Components	EEU-FM1V681
C8	1	CAP, CERM, 2200pF, 250VAC, X1Y1, TH	Murata Electronics North America	DE1E3KX222MA4BL01
C9	1	CAP, CERM, 4.7uF, 16V, +/-10%, X7R, 0805	MuRata	GRM21BR71C475KA73L
CN1, CN2	2	Conn Term Block, 2POS, 5.08mm PCB	Phoenix Contact	1715721
D1, D3, D6	3	Diode, Ultrafast, 600V, 1A, SMA, Diode, Ultrafast, 400V, 1A, SMA, Diode, Ultrafast, 600V, 1A, SMA	Diodes Inc	US1J-13-F
D2	1	Diode, Switching-Bridge, 600V, 0.5A, MiniDip	Diodes Inc	RH06-T
D4	1	Diode, TVS, 250V, 400W, SMA	Littelfuse Inc	SMAJ250A
D5	1	Diode, Scottky 3A 100V SMB	STMicroelectronics	STPS2H100AY
D7	1	Diode, Zener, 36V, 500mW, SOD-123	Vishay-Semiconductor	MMSZ4715-V
D8	1	Diode 150V, 0.2A, 50nS, SOD-123	Diodes Inc	BAV20W-7-F
D9	1	Zener Diodes Diode Zener Single 4.7V 1% 250mW	NXP	BZX84-A4V7,215
D10	1	Diode, Schottky, 30V, 0.2A, SOD-323	ON Semiconductor	BAT54HT1G
D11	1	Diode, Ultrafast, 100V, 0.15A, SOD-123	Diodes Inc.	1N4148W-7-F
D12	1	Diode, Zener, 3V, 200mW, SOD-323	Diodes Inc.	MMSZ5225BS-7-F
D13	1	Diode, Ultrafast, 75V, 0.25A, SOD-323	Central Semiconductor	CMDD4448TR
F1	1	Fuse Slow 250VAC 500mA AXIAL	Littelfuse Inc	0875.500MXEP
J1, J2, J3, J4	4	Jumper Wire, 300mil spacing, Orange, pkg of 200	3M	923345-03-C
L1	1	Inductor, Drum Ferrite 3.3mH 0.15A, 11ohm, TH1	Sumida	RCH895NP-332K
L2	1	Inductor, Drum Ferrite 1.5mH 0.21A, 3ohm, TH1	Sumida	RCH895NP-152K
LED+1, LED-1, TP1, TP3	4	Terminal, Turret, TH, Double	Keystone	1502-2
Q1	1	STMICROELECTRONICS - STD1NK60-1 - MOSFET, N CH, 600V, 1A, IPAK	STMicroelectronics	STD1NK60-1
Q2	1	MOSFET N-CH, 2.5A, 800V, 4.5ohm, 19nC	STMicroelectronics	STD3NK80Z-1
R1, R7	2	NA	NA	NA
R2	1	RES, 220 ohm, 1%, 0.25W, 1206	Yageo America	RC1206FR-07220RL
R3	1	RES, 100 ohm, 5%, 1W, Axial	Panasonic Electronic Components	ERG-1SJ101
R4, R5, R12	3	RES, 2.10Meg ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052M10FKEA
R6	1	RES, 1.00k ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW12061K00FKEA
R8	1	RES, 0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08050000Z0EA
R9	1	RES, 42.2k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080542K2FKEA
R10	1	RES, 127k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603127KFKEA
R11	1	RES, 20.0 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080520R0FKEA
R13	1	RES, 27k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060327K0JNEA
R14	1	RES, 90.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060390K9FKEA
R15	1	RES, 3.65Meg ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08053M65FKEA
R16	1	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA
R17	1	RES, 10.2k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0710K2L
R18	1	RES, 3.00 ohm, 1%, 0.25W, 1206	Yageo America	RC1206FR-073RL
R19	1	RES, 26.7 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080526R7FKEA

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R20	1	RES, 1.10k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-071K1L
R21	1	RES, 13.3k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060313K3FKEA
R22, R23	2	RES, 10.0k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0710KL
T1	1	Transformer EE-16	Würth	750341087
TP2	1	Test Point, SMT, Miniature	Keystone Electronics	5015
U1	1	Off-Line Primary Side Sensing with PFC	TI	TPS92314A
U2	1	TRANS NPN 30V 100MA DUAL SOT143B	NXP Semiconductors	BCV61B,235
VDR1	1	Varistor, 300VAC, 385VDC, 30J, 7mm, Radial	EPCOS Inc	S07K300E2

Notes:

Substitutions made according to Alternate PartNumber must meet datasheet parameters, not just the Description specified.

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