

PMP8016_revA_BOM



Project Name:	Change in menu Project
Project File:	TPS92641 20A EVM.PrjPCB
Base ID:	XX####
PCB Rev:	E2
Schematic Rev:	E2
Assembly Variant:	None
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Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Library Name	LibRef	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2
1	IPC81	Printed Circuit Board	O	Any	XX####	1	Hardware.IntLib	PCB				
2	C1	CAP, [Technology], 680F, 35V, +/-20%, TH	Y	Nichicon	UHD1V681MHD	1	MiscParts.IntLib	Capacitor_Polarized				
3	C2	CAP, [Technology], 680F, 35V, +/-20%, TH	Y	Nichicon	UHD1V681MHD	1	MiscParts.IntLib	Capacitor_Polarized				
4	C3	CAP, CERM, 22uF, 25V, X5R, 20%, 2010	Y	Murata	GRM32ER61E226ME15L	1	MiscParts.IntLib	Capacitor				
5	C4	CAP, CERM, 22uF, 25V, X5R, 20%, 2010	Y	Murata	GRM32ER61E226ME15L	1	MiscParts.IntLib	Capacitor				
6	C5	CAP, CERM, 22uF, 25V, X5R, 20%, 2010	Y	Murata	GRM32ER61E226ME15L	1	MiscParts.IntLib	Capacitor				
7	C6	CAP, CERM, 1uF, 50V, X7R, 10%, 1206	Y	TDK	C3216X7R1H105K	1	MiscParts.IntLib	Capacitor				
8	C7	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Y	Murata	GRM188R71H104KA93	1	MiscParts.IntLib	Capacitor				
9	C8	CAP, CERM, 330pF, 50V, +/-5%, C0G, 0603	Y	Murata	GRM1885C1H331JA01	1	MiscParts.IntLib	Capacitor				
10	C9	CAP, CERM, 0.47uF, 25V, X7R, 10%, 0603	Y	Murata	GRM188R71E474KA12D	1	MiscParts.IntLib	Capacitor				
11	C10	CAP, CERM, 1uF, 50V, X7R, 10%, 1206	Y	TDK	C3216X7R1H105K	1	MiscParts.IntLib	Capacitor				
12	C11	DLP	Y	N/A	N/A	1	MiscParts.IntLib	Capacitor				
13	C12	DLP	Y	N/A	N/A	1	MiscParts.IntLib	Capacitor				
14	C13	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	Y	Murata	GRM188R71H104KA93	1	MiscParts.IntLib	Capacitor				
15	C14	CAP, CERM, 2.2nF, 50V, +/-5%, C0G 0603	Y	Murata	GRM1885C1H222JA01	1	MiscParts.IntLib	Capacitor				
16	CN1	DC POWER CONNECTOR (Socket)	Y	Kycon	KPJX-4S-S	1	TPS92641 EVM.SCHLIB	KPJX-4S-S				
17	CN2	TERM BLOCK 2POS SIDE 6.35MM	Y	TE CONNECTIVITY	796740-2	1	TPS92641 EVM.SCHLIB	Buchanan_796740-2	Digi-Key	A98275-ND		
18	D1	Diode, Ultrafast, 75V, 0.25A, SOD-323	Y	Central Semi	CMDD4448	1	MiscParts.IntLib	Diode_Schottky				
19	D2	Diode, Schottky, 40V, 1A, SOD-123	Y	Central Semi	CMMSH1-40L	1	MiscParts.IntLib	Fiducial				
20	FID1	Fiducial mark. There is nothing to buy or mount.	Y	N/A	N/A	1	MiscParts.IntLib	Fiducial				
21	FID2	Fiducial mark. There is nothing to buy or mount.	Y	N/A	N/A	1	MiscParts.IntLib	Fiducial				
22	FID3	Fiducial mark. There is nothing to buy or mount.	Y	N/A	N/A	1	MiscParts.IntLib	Fiducial				
23	H1	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Hardware.IntLib	1902C	Digi-Key	1902CK-ND		
24	H2	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Hardware.IntLib	1902C	Digi-Key	1902CK-ND		
25	H3	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Hardware.IntLib	NY PMS 440 0025 PH	Digi-Key	H542-ND		
26	H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Hardware.IntLib	NY PMS 440 0025 PH	Digi-Key	H542-ND		
27	H5	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Hardware.IntLib	1902C	Digi-Key	1902CK-ND		
28	H6	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Hardware.IntLib	1902C	Digi-Key	1902CK-ND		
29	H7	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Hardware.IntLib	NY PMS 440 0025 PH	Digi-Key	H542-ND		
30	H8	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Hardware.IntLib	NY PMS 440 0025 PH	Digi-Key	H542-ND		
31	L1	Inductor, Shielded E Core, Ferrite, 1uH, 30A, 0.0017 ohm, SMD	Y	Coilcraft	SER2011-102MLB	1	Inductor.IntLib	SER2013-362MLB				
32	LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Y	Brady	THT-14-423-10	1	Hardware.IntLib	THT-14-423-10	Farnell	2065596	Newark	97C5133
33	Q1	DLP	Y	N/A	N/A	1	MiscParts.IntLib	MOSFET_N_D56789G4S123				
34	Q2	MOSFET, N-CH, 30V, 40A, PowerPAK SO-8	Y	Vishay-Siliconix	SI7634BDP	1	MiscParts.IntLib	MOSFET_N_D56789G4S123	Digi-Key	SI7634BDP-T1-GE3CT-ND		
35	Q3	MOSFET, N-CH, 30V, 40A, PowerPAK SO-8	Y	Vishay-Siliconix	SI7634BDP	1	MiscParts.IntLib	MOSFET_N_D56789G4S123	Digi-Key	SI7634BDP-T1-GE3CT-ND		
36	Q4	MOSFET, N-CH, 30V, 40A, PowerPAK SO-8	Y	Vishay-Siliconix	SI7634BDP	1	MiscParts.IntLib	MOSFET_N_D56789G4S123	Digi-Key	SI7634BDP-T1-GE3CT-ND		
37	Q5	MOSFET, N-CH, 30V, 40A, PowerPAK SO-8	Y	Vishay-Siliconix	SI7634BDP	1	MiscParts.IntLib	MOSFET_N_D56789G4S123	Digi-Key	SI7634BDP-T1-GE3CT-ND		
38	R1	RES, 200k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603200KFKEA	1	Resistor_0603.IntLib	CRCW0603200KFKEA	Digi-Key	541-200KHCT-ND	Farnell	1157289
39	R2	RES, 18.2k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060318K2FKEA	1	Resistor_0603.IntLib	CRCW060318K2FKEA	Digi-Key	541-18.2KHCT-ND	Farnell	1157256
40	R3	RES, 28.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060328K0FKEA	1	Resistor_0603.IntLib	CRCW060328K0FKEA	Digi-Key	541-28.0KHCT-ND	Farnell	1157335
41	R4	RES, 0 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW06030000Z0EA	1	Resistor_0603.IntLib	CRCW06030000Z0EA	Digi-Key	541-0.0GCT-ND	Farnell	1288408
42	R5	RES, 2.00k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06032K00FKEA	1	Resistor_0603.IntLib	CRCW06032K00FKEA	Digi-Key	541-2.00KHCT-ND	Farnell	1151766
43	R6	RES, 150k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603150KFKEA	1	Resistor_0603.IntLib	CRCW0603150KFKEA	Digi-Key	541-150KHCT-ND	Farnell	1151713
44	R7	RES, 100k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100KFKEA	1	Resistor_0603.IntLib	CRCW0603100KFKEA	Digi-Key	541-100KHCT-ND	Farnell	1344361
45	R8	RES, 4.02k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06034K02FKEA	1	Resistor_0603.IntLib	CRCW06034K02FKEA	Digi-Key	541-4.02KHCT-ND	Farnell	1151984
46	R9	DLP	Y	N/A	N/A	1	MiscParts.IntLib	Resistor				
47	R10	RES, 49.9 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060349R9FKEA	1	Resistor_0603.IntLib	CRCW060349R9FKEA	Digi-Key	541-49.9HCT-ND	Farnell	1152041
48	R11	RES, 0.01 ohm, 1%, 5W, 4527	Y	Vishay-Dale	WSR5R0100FEEA	1	MiscParts.IntLib	Resistor				
49	RA1	DLP	Y	N/A	N/A	1	MiscParts.IntLib	Resistor				
50	RB1	DLP	Y	N/A	N/A	1	MiscParts.IntLib	Resistor				
51	RC1	RES, 1.50 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031R50FKEA	1	Resistor_0603.IntLib	CRCW06031R50FKEA	Digi-Key	541-1.50HHCT-ND	Arrow	CRCW06031R50FKEA
52	RD1	RES, 47k ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW060347K0JNEA	1	Resistor_0603.IntLib	CRCW060347K0JNEA	Digi-Key	541-47KGCT-ND	Farnell	1652881
53	RE1	RES, 1.50 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031R50FKEA	1	Resistor_0603.IntLib	CRCW06031R50FKEA	Digi-Key	541-1.50HHCT-ND	Arrow	CRCW06031R50FKEA
54	RF1	RES, 47k ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW060347K0JNEA	1	Resistor_0603.IntLib	CRCW060347K0JNEA	Digi-Key	541-47KGCT-ND	Farnell	1652881
55	RG1	RES, 1.50 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031R50FKEA	1	Resistor_0603.IntLib	CRCW06031R50FKEA	Digi-Key	541-1.50HHCT-ND	Arrow	CRCW06031R50FKEA
56	RH1	RES, 47k ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW060347K0JNEA	1	Resistor_0603.IntLib	CRCW060347K0JNEA	Digi-Key	541-47KGCT-ND	Farnell	1652881
57	RV1	RES, 10.0 ohm, 1%, 0.25W, 1206	Y	Vishay-Dale	CRCW120610R0FKEA	1	Resistor_1206.IntLib	CRCW120610R0FKEA	Digi-Key	541-10.0FCT-ND	Farnell	1157816
58	TP1	Terminal, Turret, TH, Double	Y	Keystone	1502-2	1	Connectors.IntLib	1502-2	Digi-Key	1502-2K-ND		
59	TP2	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
60	TP3	Terminal, Turret, TH, Double	Y	Keystone	1502-2	1	Connectors.IntLib	1502-2	Digi-Key	1502-2K-ND		
61	TP4	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		

62	TP5	Terminal, Turret, TH, Double	Y	Keystone	1502-2	1	Connectors.IntLib	1502-2	Digi-Key	1502-2K-ND		
63	TP6	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
64	TP7	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
65	TP8	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
66	TP9	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
67	TP10	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
68	TP11	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
69	TP12	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
70	TP13	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
71	TP14	Terminal, Turret, TH, Double	Y	Keystone	1502-2	1	Connectors.IntLib	1502-2	Digi-Key	1502-2K-ND		
72	TP15	Test Point, TH, Miniature, Red	Y	Keystone	5000	1	Connectors.IntLib	5000	Digi-Key	5000K-ND		
73	U1	Wide Input Range Non-Synchronous Buck Controller, 16-pin TSSOP-EP, Pb-Free	Y	National Semiconductor	TPS92641PWP	1	TPS92641 EVM SCHLIB	TPS92641PWP				

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