

Assembly Bill of Materials

Texas Instruments

Project Name:	PMP7837 REVC
Project File:	PMP7837 REVC.PrjPcb
Base ID:	<Parameter PRJ_Number not found>
Schematic Rev:	X1
Assembly Variant:	-200 REVC
Build Quantity:	100
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Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Required	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Alternate Manufacturer	Alternate PartNumber
1	AA1	Printed Circuit Board	O	Any	PRJ_Number	1	100						
2	C1, C2, C19, C20, C33, C34, C50, C51, C62	CAP ALUM 330UF 35V 20% SMD	Y	Panasonic	EEE-FP1V331AP	9	900	Digi-Key	PCE4445CT-ND				
3	C3, C4, C5, C6, C21, C22, C23, C24, C35, C36, C37, C38, C52, C53, C54, C55	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1206	Y	MuRata	GRM31CR71H475KA12L	16	1600	Farnell	1735545	Newark	24R6347		
4	C7, C25, C39, C56	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1210	Y	MuRata	GRM32ER7YA106KA12L	4	400	Digi-Key	490-5314-1-ND				
5	C8, C10, C26, C28, C40, C43, C57, C59	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	Y	MuRata	GRM188R71E474KA12D	8	800	Digi-Key	490-3291-1-ND	Arrow	GRM188R71E474KA12D		
6	C9, C16, C27, C41, C58	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H101JA01D	5	500	Digi-Key	490-1427-1-ND				
7	C11, C29, C44, C60	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	Y	MuRata	GRM188R71E105KA12D	4	400	Digi-Key	490-5307-1-ND				
8	C12, C30, C45, C46	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	Y	MuRata	GRM2165C2A471JA01D	4	400	Digi-Key	490-1611-1-ND	Farnell	1403828		
9	C13, C31, C47, C49	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Y	MuRata	GRM188R71E104KA01D	4	400	Digi-Key	490-1524-1-ND	Farnell	1403776		
10	C14	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	Y	MuRata	GRM188R71E473KA01D	1	100	Digi-Key	490-1522-1-ND	Farnell	1118180		
11	C15, C17, C48, C61, R2, R4, R5, R9, R10, R21, R22, R23, R27, R28, R32, R33, R34, R39, R41, R45, R46, R47, R51, R52	RES, 0 ohm, 5%, 0.1W, 0603	Y	Panasonic	ERJ-3GEY0R00V	24	2400	Digi-Key	P0.0GCT-ND	Mouser	667-ERJ-3GEY0R00V		
12	C18	CAP, CERM, 4700pF, 25V, +/-5%, C0G/NP0, 0603	Y	TDK	C1608C0G1E472J	1	100	Digi-Key	445-2712-1-ND	Arrow	C1608C0G1E472J		
13	C32	CAP, CERM, 2.2uF, 16V, +/-10%, X5R, 0603	Y	MuRata	GRM188R61C225KE15D	1	100	Digi-Key	490-3296-1-ND				
14	C42	CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0603	Y	TDK	C1608C0G1H221J	1	100	Digi-Key	445-1285-1-ND	Arrow	C1608C0G1H221J		
15	D1, D2, D3, D5	Diode, Schottky, 60V, 1A, SOD-123F	Y	NXP Semiconductor	PMEG6010CEH,115	4	400	Digi-Key	568-4104-1-ND				
16	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	6	600						
17	H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	4	400						
18	IN1, OUT1, Sync In 1, Sync In 2, Sync In 3, Sync In 4	Test Point, TH, Compact, White	Y	Keystone	5007	6	600	Digi-Key	5007K-ND				
19	J1, J2	Terminal 50A Lug	Y	Panduit	CB35-36-CY	2	200	Digi-Key	CB35-36-CY-ND				
20	J3, J4, J5, J6	Standard Banana Jack, Uninsulated, 8.9mm	Y	Keystone	575-8	4	400	Digi-Key	575-8K-ND	Arrow	575-8		
21	L1, L2, L3, L4	Inductor, Shielded E Core, Ferrite, 4uH, 25A, 0.00194 ohm, SMD	Y	Coilcraft	SER2014-402MLB	4	400						
22	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	MOSFET, N-CH, 30V, 100A, SON 5x6mm	Y	Texas Instruments	CSD18501Q5A	8	800	Digi-Key					
23	R1, R20, R31, R44	RES 0.003 OHM 3W 1% 3015 WIDE	Y	Susumu Co Ltd	KRL7638-C-R003-F-T1	4	400	Digi-Key	KRL76C.003CT-ND				
24	R6	RES, 49.9k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060349K9FKEA	1	100	Digi-Key	541-49.9KHCT-ND	Farnell	1152039		
25	R7, R25, R36, R49	RES, 3.3 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW06033R30JNEA	4	400	Digi-Key	541-3.3GCT-ND	Farnell	1514753		
26	R8	RES, 15.0k ohm, 1%, 0.1W, 0603	Y	Yageo America	RC0603FR-0715KL	1	100	Digi-Key	311-15.0KHRCT-ND				
27	R12, R24, R30, R38, R43, R54	RES, 10.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060310K0FKEA	6	600	Digi-Key	541-10.0KHCT-ND	Farnell	1151638		
28	R15	RES, 121k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603121KFKEA	1	100	Digi-Key	541-121KHCT-ND	Farnell	1157209		
29	R16	RES, 2.67k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06032K67FKEA	1	100	Digi-Key	541-2.67KHCT-ND	Farnell	1157282		
30	R17	RES, 49.9k ohm, 1%, 0.125W, 0805	Y	Panasonic	ERJ-6ENF4992V	1	100	Digi-Key	P49.9KCCT-ND	Arrow	ERJ-6ENF4992V		
31	R18	RES, 604 ohm, 1%, 0.125W, 0805	Y	Vishay-Dale	CRCW0805604RFKEA	1	100	Digi-Key	541-604CCT-ND	Farnell	1653025		
32	R26	RES, 0 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603000Z0EA	1	100	Digi-Key	541-0.0GCT-ND	Farnell	1288408		
33	R35	RES, 18.0k ohm, 0.1%, 0.1W, 0603	Y	Yageo America	RT0603BRD0718KL	1	100						
34	R37	RES, 8.66 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06038R66FKEA	1	100	Digi-Key	541-8.66HHCT-ND	Arrow	CRCW06038R66FKEA		
35	R40	RES, 1.50k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031K50FKEA	1	100	Digi-Key	541-1.50KHCT-ND	Farnell	1151613		
36	R48, R50, R55, R56	RESISTOR 7.5 OHM 3/4W 5% 2010	Y	Panasonic	ERJ-12ZYJ7R5U	4	400	Digi-Key	P7.5WCT-ND				
37	R58	RES, 158k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603158KFKEA	1	100	Digi-Key	541-158KHCT-ND	Farnell	1157238		
38	SW1, SW2, SW3, SW4	Test Point, TH, Miniature, White	Y	Keystone	5002	4	400	Digi-Key	5002K-ND	Newark	82H9632		
39	U1, U3, U4, U7		Y	TI	LM5122MH	4	400						
40	U5	IC OSC MONO TIMING 3MHZ 8-SOIC	N	TI	LMC555CMX	1	100						
41	U6	IC 10-OUT DECADE COUNTER 16-SOIC	Y		CD4017BM96	1	100	Digi-Key	296-25940-1-ND				
42	U8	Series of Adjustable Micropower Voltage Regulators, 8-pin LLP	N	TI	LP2951CSD	1	100	Farnell	1008042				

43	Vin Gnd, Vout Gnd	Test Point, TH, Miniature, Black	Y	Keystone	5001	2	200	Digi-Key	5001K-ND			-	-
44	Vin, Vout	Test Point, TH, Miniature, Red	Y	Keystone	5000	2	200	Digi-Key	5000K-ND			-	-
45	R11, R29, R42, R53	RES, 20.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060320K0FKEA	0	0	Digi-Key	541-20.0KHCT-ND	Farnell	1157286	-	-
46	R57	RES, 100k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100KFKEA	0	0	Digi-Key	541-100KHCT-ND	Farnell	1344361	-	-

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