

Engineering Bill of Materials



Project Name:	PMP10723_LM3481 Flyback_Rev2.PrjPcb
Project File:	PMP10723_LM3481 Flyback_Rev2.PrjPcb
Base ID:	PMP10723_LM3481
PCB Rev:	X1
Schematic Rev:	X1
Assembly Variant:	None
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Item	Designator	Description	Manufacturer	PartNumber	Quantity
1	C1, C3	CAP, CERM, 10uF, 25 V, +/- 10%, X7R, 1206	MuRata	GRM31CR71E106KA12L	2
2	C2	CAP, AL, 220uF, 25 V, +/- 20%, 0.3 ohm, SMD	Chemi-Con	EMVH250ADA221MJA0G	1
3	C4, C5	CAP, CERM, 1uF, 25 V, +/- 10%, X5R, 0603, CAP, CERM, 4.7uF, 25 V, +/- 10%, X5R, 0603	MuRata	GRM188R61E105KA12D	2
4	C6	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	TDK	C1608X7R1E105K080AB	1
5	C7	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	MuRata	GRM188R72A102KA01D	1
6	C8	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	AVX	06035A330JAT2A	1
7	C9	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H151JA01D	1
8	C10	CAP, AL, 47uF, 100 V, +/- 20%, ohm, SMD	Chemi-Con	EMVE101ATR470MKE0S	1
9	C11, C12	CAP, CERM, 2.2uF, 100 V, +/- 10%, X7R, 1210	Kemet	C1210C225K1RACTU	2
10	C13, C15	CAP, CERM, 0.47uF, 10V, +/-10%, X5R, 0603	MuRata	GRM188R61A474KA61D	2
11	C16	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K	1
12	C17	CAP, CERM, 1000pF, 250V, +/-5%, C0G/NP0, 0805	TDK	C2012C0G2E102J	1
13	D1	Diode, Schottky, 100 V, 1 A, PowerDI123	Diodes Inc.	DFLS1100-7	1
14	D2	Diode, Schottky, 200 V, 3 A, SMB	ON Semiconductor	MBRS3200T3G	1
15	D3, D4	Diode, Ultrafast, 100V, 0.15A, SOD-123	Diodes Inc.	1N4148W-7-F	2
16	GND	Terminal, Turret, TH, Double	Keystone	1503-2	1
17	ISO GND	Terminal, Turret, TH, Double	Keystone	1503-2	1
18	Q1	MOSFET, N-CH, 60 V, 172 A, SON 5x6mm	Texas Instruments	CSD18532Q5B	1
19	R1	RES, 40.2 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060340K2FKEA	1
20	R2	RES, 14.3 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060314K3FKEA	1

21	R3	RES, 90.9 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-9092-B-T5	1
22	R4, R12	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA	2
23	R6	RES, 5.11 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06035K11FKEA	1
24	R7	RES, 0.006, 1%, 0.5 W, 1206	Vishay-Dale	WSL12066L000FEA18	1
25	R8	RES, 200, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603200RFKEA	1
26	R9	RES, 511, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603511RFKEA	1
27	R10	RES, 1.0 k, 5%, 0.125 W, 0805	Vishay-Dale	CRCW08051K00JNEA	1
28	R11	RES, 10.5 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310K5FKEA	1
29	R13	RES, 1.00 k, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD071KL	1
30	R14	RES, 51.1 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060351K1FKEA	1
31	R15	RES, 2.49 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06032K49FKEA	1
32	R16	RES, 3.01k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06033K01FKEA	1
33	R17	RES, 332, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603332RFKEA	1
34	R18	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA	1
35	Tr	Transformer, 2.5 uH, SMT	Würth Elektronik	750342957Rev01	1
36	U1	High Efficiency Low-Side N-Channel Controller for Switching Regulators	Texas Instruments	LM3481MM/NOPB	1
37	U2	Optocoupler, 2.5 kV, 100-200% CTR, SMD-4	California Eastern Laboratories	PS2811-1-M-A	1
38	U3	Adjustable Precision Zener Shunt Regulator, 3-pin SOT-23	Texas Instruments	LM431ACM3	1
39	VIN	Terminal, Turret, TH, Double	Keystone	1503-2	1
40	VOUT	Terminal, Turret, TH, Double	Keystone	1503-2	1
41	Z1	Diode, Zener, 40V, 1A, SOD-123	Diodes Inc.	1N5819HW-7-F	1
42	Z2, Z3	Diode, Zener, 15 V, 500 mW, SOD-123	Vishay-Semiconductor	MMSZ4702-V	2

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