

Variant: 001  
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## PMP23069\_LF\_HF\_DC REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1, IPCB2	2		PMP23069_LF_HF_DC	Any	Printed Circuit Board	
2	C1, C18	2	10uF	C3216X7R1E106M160AE	TDK	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, 1206_190	1206_190
3	C2, C19	2	0.22uF	CL05B224K05NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	402
4	C3, C6, C21, C23	4	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	402
5	C5, C16, C24	3	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	402
6	C7, C20	2	1uF	C1005X5R1E105K050BC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	402
7	C8, C25	2	2.2uF	GRT155R61E225KE13D	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	402
8	C9, C10	2	0.022uF	C1206C223KDRACU	Kemet	CAP, CERM, 0.022 uF, 1000 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
9	C11, C12	2	0.1uF	C1812W104KDRACU	Kemet	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 1812	1812
10	C13, C14, C15	3	4.7uF	C1608X5R1V475K080AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X5R, 0603	603
11	C17	1	4.7uF	GCM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
12	C26, C27	2	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0402	402
13	D1	1	650V	GB01SLT06-214	GeneSiC Semiconductor	Diode, Schottky, 650 V, 1 A, SMB	SMB
14	D2, D3	2	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
15	D4	1	16V	BZT52C16-7-F	Diodes Inc.	Diode, Zener, 16 V, 500 mW, AEC-Q101, SOD-123	SOD-123
16	L1, L3	2		SDEM20161T-4R7MS	Cyntec	4.7uH Unshielded Inductor 1.1A 426mOhm Max 0806 (2016 Metric)	SMD2
17	L2	1		ACM2520-601-2P-T002	TDK	Coupled inductor, 0.2 A, 0.45 ohm, SMD	2.5x2mm
18	Q1, Q2	2		IPT60R022S7XTMA1	Infineon	N-Channel 600V 23A (Tc) 390W (Tc) Surface Mount PG-HSOF-8-2	HSOF-8
19	R1, R3	2	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
20	R2, R4	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
21	R6	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
22	R7, R8, R11, R13	4	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	402
23	R10	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
24	T1	1	475uH	760390014	Würth Elektronik	Transformer, 475uH, SMT	10.05x4.19x6.73 mm
25	U1, U4	2		LMG3522R030Q	Texas Instruments	650-V 30-mΩ GaN FET with Integrated Driver and Protection	VQFN52
26	U2	1		ISO7710FQDQ1	Texas Instruments	Automotive, High Speed, Robust EMC Reinforced Single-Channel Digital Isolator, D0008B (SOIC-8)	D0008B
27	U3	1		SN6505BDBVR	Texas Instruments	Low-Noise 1 A, 420 kHz Transformer Driver, DBV0006A (SOT-23-6)	DBV0006A
28	U5	1		ISO7731FDBQR	Texas Instruments	High Speed, Robust EMC Triple-Channel Digital Isolators, DBQ0016A (SSOP-16)	DBQ0016A
29	U6	1		TLV74133PDQNR	Texas Instruments	Low-Dropout Regulator, DQN0004A (X2SON-4)	DQN0004A
30	C4, C22	0	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	402
31	R9, R14	0	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	402