

## PMP30921 REV F Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C2, C3, C6, C7, C14	5	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V,+/- 10%, X7R, 1210	1210
C4, C5, C8, C11	4	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C9	1	0.047uF	GRM21BR72A473KA01L	MuRata	CAP, CERM, 0.047 µF, 100 V,+/- 10%, X7R, 0805	0805
C10, C12, C13	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V,+/- 10%, X7R, 1210	1210
C15, C16, C27, C32	4	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C17	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0805	0805
C18, C21	2	22uF	GRM21BZ71A226ME15L	MuRata	CAP, CERM, 22 µF, 10 V,+/- 20%, X7R, 0805	0805
C19, C20, C28	3	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0603	0603
C22	1	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
C23, C30	2	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V,+/- 10%, X7R, 0603	0603
C24	1	1000pF	GRM31BR73A102KW01L	MuRata	CAP, CERM, 1000 pF, 1000 V,+/- 10%, X7R, 1206	1206
C25	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C26	1	330pF	GRM188R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V,+/- 10%, X7R, 0603	0603
C29	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0603	0603
C31	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 µF, 10 V,+/- 10%, X7R, 1210	1210
C?	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V,+/- 10%, X7R, 0603	0603
D1, D2	2	100V	B1100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMA	SMA
D3	1	15V	MMSZ5245B-7-F	Diodes Inc.	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D4	1	100V	MBR1H100SFT3G	ON Semiconductor	Diode, Schottky, 100 V, 1 A, SOD-123FL	SOD-123FL
D5, D6	2	80V	MBR0580-TP	Micro Commercial Components	Diode, Schottky, 80 V, 0.5 A, SOD-123	SOD-123
D7	1	30V	BAT54LP-7	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, 1.00x0.50x0.60mm	SMD, 1.00x0.50x0.60mm
D8	1	60V	B160-13-F	Diodes Inc.	Diode, Schottky, 60 V, 1 A, SMA	SMA
D9	1	60V	B360-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, SMC	SMC
Jmp1, Jmp2, Jmp3, Jmp4, Jmp5	5		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos	THT, 7.0x8.2x6.5mm
L1	1	2.2uH	XEL4030-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 6.1 A, 0.0201 ohm	SMD, 4x4mm
Q1	1	100V	BSZ440N10NS3 G	Infineon Technologies	MOSFET, N-CH, 100 V, 18 A, PG-TSDSON-8	PG-TSDSON-8
R1	1	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100, 5%, 0.125 W, 0805	0805
R2	1	10.0k	CRCW120610K0FKEAHP	Vishay-Dale	RES, 10.0 k, 1%, 0.5 W, 1206	1206
R3	1	340k	CRCW0603340KFKEA	Vishay-Dale	RES, 340 k, 1%, 0.1 W, 0603	0603
R4	1	10.0	CRCW060310R0FKEAHP	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 0603	0603
R5	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R6	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R7	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R8	1	0.03	WSLP0805R0300FEB	Vishay-Dale	RES, 0.03, 1%, 0.5 W, 0805	0805
R9	1	71.5k	CRCW060371K5FKEA	Vishay-Dale	RES, 71.5 k, 1%, 0.1 W, 0603	0603
R10	1	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, 0603	0603
R11	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R12	1	1.10k	CRCW08051K10FKEA	Vishay-Dale	RES, 1.10 k, 1%, 0.125 W, 0805	0805
R13	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R14	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R15	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R16	1	5.49k	CRCW06035K49FKEA	Vishay-Dale	RES, 5.49 k, 1%, 0.1 W, 0603	0603
T1	1	4uH	A6154 Rev3	MPS Industries	TRANSFORMER	PTH 9MM7 13MM0

<b>Designator</b>	<b>Quantity</b>	<b>Value</b>	<b>PartNumber</b>	<b>Manufacturer</b>	<b>Description</b>	<b>PackageReference</b>
TP1, TP2, TP5, TP6, TP9, TP10, TP12, TP14	8	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4, TP8, TP11, TP15, TP16, TP17	7	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP7	1	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP13	1	Orange	5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1, U4	2		TPS76350QDBVRQ1	Texas Instruments	Single Output Automotive LDO, 150 mA, Fixed 5 V Output, 2.7 to 10 V Input	DBV0005A (SOT-23)
U2	1		LM51551QDSSTQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-sync Boost Ctrl.	DSS0012C (WSON-12)
U3	1		TPS74501PQWDRBRQ1	Texas Instruments	500-mA LDO With Power-Good in Small Wettable Flank WSON Package	DRB0008J (VSON-8)

## IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](http://ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2022, Texas Instruments Incorporated