

Variant: 001  
 Generated: 4/3/2019 4:38:06 PM  
 TID #: N/A



PMP21884 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C7	2	4.7uF	GRM035R60J475ME15D	MuRata	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0201	0201
2	C2, C6	2	1uF	CL05A105MP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 10 V,+/- 20%, X5R, 0402	0402
3	C3	1	2.2uF	CL03A225MQ3CRNC	Samsung Electro-Mechanics	CAP, CERM, 2.2 uF, 6.3 V, +/- 20%, X5R, 0201	0201
4	C4	1	1uF	CL05A105KA5NQNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 25 V,+/- 10%, X5R, 0402	0402
5	C5	1	4.7uF	C1005X5R1A475M050BC	TDK	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0402	0402
6	C8, C11, C12	3	10uF	GRM155R60J106ME15D	MuRata	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0402	0402
7	C9, C10	2	1uF	GRM033R60J105MEA2D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 20%, X5R, 0201	0201
8	C13, C14	2	10uF	GRM188R61E106MA73J	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	0603
9	C15	1	0.47uF	CGA5L2X5R1H474K160AA	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 3, 1206_190	1206_190
10	D1, D2	2		TPD1E6B06DPLR	Texas Instruments	Single-Channel ESD in 0201 Package With 6pF Capacitance and 6V Breakdown, DPL0002A (X2SON-2)	DPL0002A
11	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
12	J1	1		S2B-PH-SM4-TB(LF)(SN)	JST Manufacturing	Header (shrouded), 2mm, 2x1, R/A, SMT	Header, 2x1, 2mm, R/A
13	J2, J4, J6, J7, J8, J11	6		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
14	J3, J10, J12, J13, J14, J15	6		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
15	J5	1		105017-0001	Molex	Connector, Receptacle, Micro-USB Type B, R/A, Bottom Mount SMT	Micro USB receptacle
16	J9	1		22/05/3041	Molex	Header (friction lock), 100mil, 4x1, R/A, TH	4x1 R/A Header
17	L1	1	10uH	DFE201610E-100M=P2	MuRata	Inductor, Shielded, Metal Composite, 10 uH, 0.65 A, 0.78 ohm, SMD	1.6x2mm
18	L2	1	470nH	DFE18SANR47MG0L	MuRata	Inductor, Shielded, Metal Composite, 470 nH, 2.6 A, 0.054 ohm, SMD	0603
19	L3	1	2.2uH	LQM18PN2R2MGHD	MuRata	Inductor, Ferrite, 2.2 uH, 0.25 A, 0.2 ohm, SMD	0603
20	R1	1	12k	RC0201JR-0712KL	Yageo America	RES, 12 k, 5%, 0.05 W, 0201	0201
21	R4	1	10.0k	RC0201FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.05 W, 0201	0201
22	R5	1	59.0k	RC1206FR-0759KL	Yageo America	RES, 59.0 k, 1%, 0.25 W, 1206	1206
23	R6	1	100k	3266W-1-104LF	Bourns	Trimmer, 100k ohm, 0.25W, TH	4.5x8x6.7mm
24	R9	1	6.04k	CRCW12066K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
25	R10	1	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201
26	R11	1	430k	RC0201JR-07430KL	Yageo America	RES, 430 k, 5%, 0.05 W, 0201	0201
27	R13	1	82.0k	RC0201FR-0782KL	Yageo America	RES, 82.0 k, 1%, 0.05 W, 0201	0201
28	S1	1		TL1015AF160QG	E-Switch	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm
29	TP1, TP2, TP3, TP4, TP5, TP8, TP10	7		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
30	TP6, TP7, TP9	3		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
31	TP11, TP12, TP13, TP14, TP15	5		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
32	U1	1		BQ25150YFPR	Texas Instruments	BQ25150YFP, YFP0020ACAC (DSBGA-20)	YFP0020ACAC
33	U2	1		TPD2E001IDRLRQ1	Texas Instruments	Automotive Catalog Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Inter, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
34	U3	1		TPS62802YKAR	Texas Instruments	Tiny High Frequency Ultra-low Iq Step-Down Converter, YKA0006ACAC (DSBGA-6)	YKA0006ACAC
35	U4	1		TPS7A0512PYKAR	Texas Instruments	1uA, ultra-low Iq, 200mA low-dropout (LDO) regulator in a small-size package, YKA0004ACAC (DSBGA-4)	YKA0004ACAC
36	U5	1		TPS62770YFPR	Texas Instruments	Tiny Single-chip Dual Solution with 360nA Iq Buck and up to 15V Boost in WCSP, YFP0016ACAC (DSBGA-16)	YFP0016ACAC
37	R2, R3, R7, R8	0	10k	RC0201JR-0710KL	Yageo America	RES, 10 k, 5%, 0.05 W, 0201	0201
38	R12	0	0	CRCW02010000Z0ED	Vishay-Dale	RES, 0, 5%, 0.05 W, 0201	0201

## IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), 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, 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 ([www.ti.com/legal/termsofsale.html](http://www.ti.com/legal/termsofsale.html)) 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.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2019, Texas Instruments Incorporated