PMP4408 RevA Bom

	PMP4408_RevA_Bo				
Qty Reference		Description	Size	Part Number	MFR
1 D2	1N5408	DIODE, General Purpose, 600V, 3.0A	DO-201AD	1N5408	Fairchild
3 C18 C28-29	47uF	CAP ALUM 47UF 35V 20% RADIAL	6.3mm*11.2mm	EEU-FC1V470	Panasonic
2 B1-2	MMZ2012R102A	FERRITE CHIP 1000 OHM 500MA 0805	805	MMZ2012R102A	TDK
2 C7 C32	100nf	Capacitor, Ceramic, 100V, X7R, ±10%	603	C1608X7S2A104K	TDK
1 C3	100pf	Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	muRata
5 C6 C8 C12 C3		Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	muRata
1 C13	1nf	Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	muRata
1 C24	22nf	Capacitor, Ceramic, 25V, X7R, ±10%	603	std	muRata
1 C4	22pf	Capacitor, Ceramic, 25V, X7R, ±10%	603	std	muRata
1 C34	470Pf	Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	muRata
1 C14	NA	Capacitor, Ceramic, 25V, X7R, ±10%	603	std	muRata
1 C23	NA	Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	muRata
3 C5 C10 C30	1uf	Capacitor, Ceramic, 25V, X7R, ±10%	805	Std	muRata
1 C26	22uf	CAP CER 22UF 25V 20% X5R 1206	1206	C3216X5R1E226M160AB	TDK
1 C21	22uF	CAP CER 22UF 6.3V X7R 1206	1206	std	muRata
1 C2	4.7nf	CAP CER 4700PF 630V 10% X7R 1206	1206	C3216X7R2J472K115AA	TDK
1 C15	NA				
1 C27	47uf	CAP CER 47UF 6.3V 20% X5R 1206	1206	C3216X5R0J476M160AC	TDK
1 C53	150uf	CAP ALUM 150UF 450V 20% SNAP	0.98 inch	EET-HC2W151CA	Panasonic
2 C19 C9	1000uF	CAP ALUM 1000UF 50V 20% RADIAL	12.5 x 25mm	ECA-1HM102	Panasonic
1 C17	NA				
1 C35	470uf	CAP ALUM 470UF 6.3V 20% RADIAL	6.3mm*9mm	6SEPC470MW+TSS	Panasonic
1 D3	BAS21-03W	Diode, High-Speed Switching, 250-mA, 200-V	SOD-323	BAS21-03W	Infineon
1 D8	NA	Diode, Schottky, 200-mA, 30-V	SOT23		Vishay-Liteon
1 D1	15V	DIODE ZENER 15V 500MW SOD-123	SOD123	Std	std
2 D9 D4	SS34B	Diode, Schottky Barrier, 3A, 40V	SMB	std	Std
1 D7	BU1508	Diode, IC BRIDGE RECT 15A 800V KBU	0.935 X 0.280 inch	BU1508	Vishay
1 L1	1.5mH	COMMON MODE CHOKE 1.5MH 2A T/H	T0 000	PLA10AN1522R0R2B	MuRata
2 D5 D10		TU-IDIODE SCHOTTKY 20A 200V TO220AB	TO-220	MBR20200CTE3/TU-ND	Microsemi
1 F1	2A/250V	FUSE 250V SLO-BLO 2AG 2A AXIAL	4.7mm*14.48mm	0230002.DRT1P	Littelfuse / Wickmann
1 E3	ERZ-V14D471	SUR ABSORBER 14MM 470V 4500A ZNR	0.650 x 0.650 inch	MEDINODOL DIVO	Panasonic
1 NTC1	3R	CURRENT LIMITER		NTPAN3R0LDKB0	MuRata
1 M1-2	annoon(oao	MOCEER N OU CEOU 4 ET RO 251	mo 2207D	CDD20MC0C2	Customer provide
1 Q2	SPP20N60C3	MOSFET N-CH 650V 4.5A TO-251	TO-220AB	SPP20N60C3	Infineon
1 C1 1 H1	0.1uF 28600-3	CAP .1UF 275VAC INTER SUPP X2	$0.689 \times 0.217 \text{ inch}$ $1.025 \times 0.963 \text{ inch}$	R46KI3100DQM1K	Kemet TI
1 L4	47uH	Heatsink, Custom Inductor, SMT, 1.3A, 195milliohm	1.025 x 0.965 Inch	CDRH8D28NP-470NC	sumida
1 L2	47uH 27uH	Inductor, SMT, 1.5A, 195MIIIIOMM Inductor, SMT, 2.5A, 67milliohm		CDRH8D38NP-150NC	sumida
1 U2	LM5023MM	IC, AC-DC Quasi-Resonant Current Mode PWM Cont	roller	LM5023MM	TI
1 U4	FOD817CS	OPTOCOUPLER PHOTOTRANS OUT 4-SMD	SMD	FOD817CS	Fairchild
2 C16 C22	2200pF	CAP CER 2200PF 250VAC 20% RADIAL	5112	DE1E3KX222MN5AA01	Murata
1 T1	750342275	ERL35 Transformer		750342275	Wurth
2 R37 R40	10K	Resistor, Chip, 1/10W, 1%	603	750542275 Std	Std
1 R17	10k	Resistor, Chip, 1/10W, 1%	603	Std	Std
1 R38	22K	Resistor, Chip, 1/10W, 1%	603	Std	Std
1 R16	86k	Resistor, Chip, 1/10W, 1%	603	Std	Std
2 R3 R6	NA	Resistor, Chip, 1/10W, 1%	603	Std	Std
		± 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

1 R14	0	Resistor, Chip, 1/10W, 1%	603	Std	Std	
2 R19 R22	100K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R25	10K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R23	13K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R21	16K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R24	180K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R15	1K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R8	4.3K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R12	68K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
2 R2 R20	82K	Resistor, Chip, 1/10W, 1%	603	Std	Std	
1 R13	10M	Resistor, Chip, 1/8W, 1%	805	Std	Std	
1 R11	22	Resistor, Chip, 1/8W, 1%	805	Std	Std	
2 R9-10	100k	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
1 R5	10k	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
3 R7 R26-27	1M	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
2 R1 R29	300K	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
1 R28	33	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
1 R18	NA	Resistor, Metal Film, $1/4$ watt, \pm 1%	1206	Std	Std	
1 R4	0.1	Resistor, Chip, 1W, 1%	2512	Std	STD	
1 U5	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI	
2 U1 U6	TPS5402	IC, Economy Primary-Side Controller, xx-V Sta	rtup DGK8	TPS5402	TI	
1 Q1	BSS126	MOSFET, Nch, 600V, 7 mA, 700 Ohm		BSS126	Infineon	
1 Q3	NA	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23		On Semi	

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Buyers") who are developing systems that incorporate TI semiconductor products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design. TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER'S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer's safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have *not* been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.