

## Assembly Bill of Materials

## Texas Instruments

Project Name:	UCC28720
Project File:	PMP9517.PrjPcb
Base ID:	PMP9517
Schematic Rev:	E1
Assembly Variant:	-001
Build Quantity:	100
Generated:	2/24/2014 9:38:46 AM

Enter search term in cell R2 below
<a href="#">Search Findchips.com</a>
<a href="#">Search Digi-Key</a>
<a href="#">Search Mouser</a>
<a href="#">Search Newark</a>
<a href="#">Search RS Components</a>

Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Required	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Alternate Manufacturer	Alternate PartNumber
1	IPC1	Printed Circuit Board	O	Any	PMP9517	1	100						
2	C1, C2	CAP, [Technology], xxxF, xxV, +/-xx%, xxOhm ESR, [MountType]	RoHS Compliant	Nichicon	UVCG100MPD	2	200						
3	C3	CAP, CERM, 10uF, 16V, +/-10%, X5R, 1210	Y	AVX	1210VD106KAT2A	1	100	Digi-Key	478-1629-1-ND	Mouser	581-1210YD106K		
4	C4	CAP, CERM, 100pF, 500V, +/-5%, COG/NP0, 1206	Y	Kemet	C1206C101JCGACTU	1	100	Digi-Key	399-7073-2-ND	Mouser	80-C1206C101JCG		
5	C5	CAP, CERM, 1000pF, 300V, +/-20%, Y5U, Radial Disc 7.5mm, ls=7.5	Y	Vishay-Bccomponents	VY2102M29Y5UG63V7	1	100	Digi-Key	BC2752-ND	Mouser	72-VY2102M29Y5UG63V7		
6	C7, C8	CAP, [Technology], xxxF, xxV, +/-xx%, xxOhm ESR, [MountType]	RoHS Compliant	Nichicon	RNE0J122MDN1PX	2	200						
7	C9	CAP, CERM, 0.1uF, 50V, +/-5%, X7R, 0805	Y	AVX	0805SC104AT2A	1	100	Digi-Key	478-3352-1-ND	Mouser	581-0805SC104J		
8	D1	Diode, Switching-Bridge, 600V, 1A, TH	Y	MB6S	MB6S	1	100	Mouser	512-MB6S				
9	D2	Diode, Switching, 200V, 0.2A, SOD-123	Y	Diodes Inc.	BAV21W-7-F	1	100	Digi-Key	BAV21W-FDICT-ND	Mouser	621-BAV21W-F		
10	D3	Diode, TVS, Uni, 170V, 600W, SMB	Y	ST Microelectronics	SMBJ170A-TR	1	100	Digi-Key	497-6511-1-ND	Mouser	511-SMBJ170A-TR		
11	D4	Diode, [Type], xxxV, x.xxA, [PackageReference]	RoHS Compliant	Diodes Inc	DFLR1600-7	1	100						
12	D5, D6	Diode, Schottky, 40V, 3.5A, DPAK	RoHS Compliant	Diodes Inc	PDS1040L-13	2	200						
13	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	Y	N/A	N/A	3	300						
14	H1, H2, H5, H6	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	4	400	Digi-Key	H542-ND				
15	H3, H4, H7, H8	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	4	400	Digi-Key	1902CK-ND				
16	J1	Connector, USB Type A, Receptacle, R/A, TH	Y	TE Connectivity	292303-4	1	100	Digi-Key	292303-4-ND	Mouser	571-292303-4		
17	L1	Inductor, Shielded Drum Core, Metal Composite, 1mH, 0.5A, 1.7 ohm, TH	Y	Würth Elektronik eiSos	768772102	1	100	Digi-Key	732-3261-ND				
18	Q1	Transistor, NPN, 400V, 1.5A, TO-92AP	RoHS Compliant	STMicroelectronics	2STL2580	1	100						
19	R1	RES, xxx ohm, x%, xW, [PackageReference]	RoHS Compliant	TT Electronics/IRC	SPP1UL3R30JLF	1	100						
20	R2	RES, 6.8k ohm, 5%, 0.125W, 0805	Y	Vishay-Dale	CRCW08056K80JNEA	1	100	Mouser	71-CRCW08056K80JNEA	Farnell	1537444		
21	R3	RES, 1.0 ohm, 5%, 0.25W, 1206	Y	Vishay-Dale	CRCW12061R00JNEA	1	100	Digi-Key	541-1.0ECT-ND	Mouser	71-CRCW1206J-1.0-E3		
22	R4	RES, 39k ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW060339K0JNEA	1	100	Mouser	71-CRCW0603J-39K-E3	Farnell	1514761		
23	R5	RES, 1.50k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031K50FKEA	1	100	Digi-Key	541-1.50KHCT-ND	Mouser	71-CRCW0603-1.5K-E3		
24	R6	RES, 22 ohm, 5%, 1.5W, 2512	Y	Vishay-Dale	CRCW251222R0JNEGHP	1	100	Digi-Key	541-22RACT-ND	Mouser	71-CRCW251222R0JNEGH		
25	R7	RES, 100k ohm, 1%, 0.25W, 1206	Y	Yageo America	RC1206FR-07100KL	1	100	Digi-Key	311-100KFRCT-ND	Mouser	603-RC1206FR-07100KL		
26	R8	RES, 1.30 ohm, 1%, 1W, 2512	Y	Panasonic	ERJ-1TRQF1R3U	1	100	Digi-Key	PT1.3YCT-ND	Mouser	687-ERJ-1TRQF1R3U		
27	R9	RES, 33 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW060333R0JNEA	1	100	Digi-Key	541-33GCT-ND	Mouser	71-CRCW0603J-33-E3		
28	R10	RES, 1.50k ohm, 1%, 0.25W, 1206	Y	Vishay-Dale	CRCW12061K50FKEA	1	100	Digi-Key	541-1.50KFACT-ND	Mouser	71-CRCW1206-1.5K-E3		
29	R11	RES, 100k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100KFKEA	1	100	Digi-Key	541-100KHCT-ND	Mouser	71-CRCW0603-100K-E3		
30	R12	RES, 27k ohm, 5%, 0.1W, 0603	Y	Yageo America	RC0603JR-0727KL	1	100	Digi-Key	311-27KGRCT-ND	Mouser	603-RC0603JR-0727KL		
31	R14	RES, 3.3k ohm, 5%, 0.125W, 0805	Y	Vishay-Dale	CRCW08053K30JNEA	1	100	Mouser	71-CRCW08053K30JNEA	Farnell	1514847		
32	T1	JohnGriffin	Y		EPC17	1	100						
33	U1	CONSTANT-VOLTAGE, CONSTANT-CURRENT CONTROLLER WITH PRIMARY SIDE REGULATION, D0007A	Y	Texas Instruments	UCC28720D	1	100					None	
34	C6	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0805	Y	AVX	0805SC222KAT2A	0	0	Digi-Key	478-1375-1-ND	Mouser	581-0805SC222K		
35	L	Test Point, Compact, Red, TH	Y	Keystone	5005	0	0	Digi-Key	5005K-ND				
36	N	Test Point, Compact, Black, TH	Y	Keystone	5006	0	0	Digi-Key	5006K-ND				
37	R13	RES, 1.0Meg ohm, 5%, 0.125W, 0805	Y	Vishay-Dale	CRCW08051M00JNEA	0	0	Digi-Key	541-1.0MACT-ND	Mouser	71-CRCW0805J-1M-E3		

## 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.