

Assembly Bill of Materials

Texas Instruments

P/N: 980<Parameter PRJ_BasePN not found>None-A

Project Name:	LMS045EVM
Project File:	PMP9219.PrjPCB
Base ID:	<Parameter PRJ_BasePN not found>
PCB Copper Rev:	<Parameter PCB_CopperRev not found>
PCB Silk Rev:	<Parameter PCB_SilkRev not found>
Assembly Variant:	None
Schematic Rev:	A
Build Quantity:	100
Generated:	14/01/2014 11:56:57

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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	IPC6	Printed Circuit Board	O	Any	PMP9219	1	100						
2	C1, C2, C3, C4, C5, C6, C7, C8	CAP CER 3.3UF 100V X7S 1210	Y	TDK	C3225X7S2A335K	8	800	DigiKey	445-5209-1-ND	Mouser	810-C3225X7S2A335K	-	-
3	C9	CAP. CERM, 2200pF, 2000V, +/-10%, X7R, 1812	Y	TDK	C4532X7R3D222K	1	100	Digi-Key	445-2389-1-ND	Arrow	C4532X7R3D222K	-	-
4	C10, C11, C15, C16, C17, C18, C22, C48	CAP. CERM, 0.1uF, 16V, +/-10%, X7R, 0402	Y	MuRata	GRM155R71C104KA88D	8	800	Digi-Key	490-3261-1-ND	Farnell	8819742	-	-
5	C12	CAP. CERM, 1000pF, 25V, +/-5%, COG/NP0, 0402	Y	TDK	C1005C0G1E102J	1	100	Digi-Key	445-2651-1-ND	Arrow	C1005C0G1E102J	-	-
6	C13	CAP. CERM, 0.1uF, 100V, +/-10%, X7R, 0603	Y	MuRata	GRM188R72A104KA35D	1	100	Digi-Key	490-3285-1-ND			-	-
7	C14, C20, C21	CAP. CERM, 1uF, 16V, +/-10%, X7R, 0603	Y	Taiyo Yuden	EMK107B7105KA-T	3	300					-	-
8	C19	CAP. CERM, 100pF, 50V, +/-5%, COG/NP0, 0402	Y	MuRata	GRM1555C1H101JA01D	1	100	Arrow	GRM1555C1H101JA01D			-	-
9	C23	CAP. CERM, 0.022uF, 16V, +/-10%, X7R, 0402	Y	TDK	C1005X7R1C223K	1	100	Digi-Key	445-1263-1-ND	Arrow	C1005X7R1C223K000N	-	-
10	C24	CAP. CERM, 0.047uF, 16V, +/-10%, X7R, 0402	Y	TDK	C1005X7R1C473K	1	100	Digi-Key	445-1264-1-ND	Arrow	C1005X7R1C473K	-	-
11	C25, C46, C47, C49	CAP. CERM, 0.01uF, 16V, +/-10%, X7R, 0402	Y	TDK	C1005X7R1C103K	4	400	Digi-Key	445-1262-1-ND	Arrow	C1005X7R1C103K	-	-
12	C26, C52	CAP. CERM, 2.2uF, 16V, +/-10%, X7R, 0805	Y	MuRata	GRM21BR71C225KA12L	2	200	Digi-Key	490-3906-1-ND	Arrow	GRM21BR71C225KA12L	-	-
13	C27, C50	CAP. CERM, 1uF, 25V, +/-10%, X7R, 0805	Y	MuRata	GRM21BR71E105KA99L	2	200	Digi-Key	GRM21BR71E105KA99L-ND			-	-
14	C28, C41	CAP. CERM, 220pF, 100V, +/-5%, COG/NP0, 0805	Y	Kemet	C0805C2221J1GACTU	2	200	Digi-Key	399-1128-1-ND	Farnell	1167821	-	-
15	C29, C30, C31, C32	CAP. TANT, 150uF, 16V, +/-20%, 0.085 ohm, 7343-31 SMD	Y	Kemet	T495D157M016ATE085	4	400	Digi-Key	399-5159-1-ND	Arrow	T495D157M016ATE085	-	-
16	C33, C34, C35, C36, C37, C38, C39	CAP. CERM, 47uF, 16V, +/-20%, X5R, 1210	Y	MuRata	GRM32ER61C476ME15L	7	700	Arrow	GRM32ER61C476ME15L			-	-
17	C40, C43, C44	CAP. CERM, 1uF, 16V, +/-10%, X7R, 0603	Y	TDK	C1608X7R1C105K	3	300	Digi-Key	445-1604-1-ND	Farnell	1669336	-	-
18	C42, R21	CAP. CERM, xxxF, xxV, [Dielectric], xx%, [Package], RES, xxx ohm, x%, xW, [PackageReference]	Used in BOM report. Use Y or N.	Used in BOM report	Used in BOM report	2	200					-	-
19	C45	CAP. CERM, 47pF, 50V, +/-5%, COG/NP0, 0402	Y	MuRata	GRM1555C1H470JA01D	1	100	Arrow	GRM1555C1H470JA01D			-	-
20	C51	CAP. CERM, 0.47uF, 16V, +/-10%, X5R, 0603	Y	MuRata	GRM188R61C474KA93D	1	100	Digi-Key	GRM188R61C474KA93D-ND			-	-
21	C53	CAP. CERM, 1000pF, 50V, +/-5%, COG/NP0, 0603	Y	MuRata	GRM1885C1H102JA01D	1	100	Digi-Key	490-1451-1-ND			-	-
22	D1	Diode, Ultrafast, 100V, 0.25A, SOD-323	Y	NXP Semiconductor	BAS316.115	1	100	Digi-Key	568-5003-1-ND			-	-
23	D2, D3	Diode, Schottky, 100V, 1A, PowerDI123	Y	Diodes Inc.	DFLS1100-7	2	200	Digi-Key	DFLS1100DICT-ND			-	-
24	D4, D10	Diode, Schottky, 40V, 0.2A, SOT-23	Y	Central Semiconductor	CMPSH-3AE	2	200					-	-
25	D5, D9	Diode, Schottky, 40V, 0.2A, SOT-23	Y	Central Semiconductor	CMPSH-3CE	2	200					-	-
26	D6	Diode, Zener, 11V, 200mW, SOD-323	Y	Diodes Inc.	MMSZ5241BS-7-F	1	100	Digi-Key	MMSZ5241BS-FDICT-ND	Arrow	MMSZ5241BS-7-F	-	-
27	D7	Diode, Zener, 4.7V, 200mW, SOD-323	Y	Diodes Inc.	MMSZ5230BS-7-F	1	100	Digi-Key	MMSZ5230BS-FDICT-ND	Arrow	MMSZ5230BS-7-F	-	-
28	D8	Diode, Schottky, 30V, 0.2A, SOD-323	Y	Diodes Inc.	BAT54WS-7-F	1	100	Digi-Key	BAT54WS-FDICT-ND	Arrow	BAT54WS-7-F	-	-
29	D11	Diode, Zener, 8.2V, 200mW, SOD-323	Y	Diodes Inc.	MMSZ5237BS-7-F	1	100	Digi-Key	MMSZ5237BS-FDICT-ND	Arrow	MMSZ5237BS-7-F	-	-
30	D12	Diode, Zener, 5.1V, 200mW, SOD-323	Y	Diodes Inc.	MMSZ5231BS-7-F	1	100	Digi-Key	MMSZ5231BS-FDICT-ND	Arrow	MMSZ5231BS-7-F	-	-
31	L2, L3	Inductor, Shielded E Core, Ferrite, 4uH, 25A, 0.00194 ohm, SMD	Y	Coilcraft	SER2014-402MLB	2	200					-	-
32	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	MOSFET, N-CH, 100V, 9.3A, PQFN 8L 5x6 A	Y	International Rectifier	IRFH5053TRPBF	8	800	Newark	11R8308			-	-
33	Q9, Q16	Transistor, NPN, 45V, 1A, SOT-89	Y	Diodes Inc.	FCX690BTA	2	200	Digi-Key	FCX690BCT-ND	Arrow	FCX690BTA	-	-
34	Q10, Q11, Q12, Q13, Q14, Q15	MOSFET N-CH 60V 100A LFPK	Y	NXP	PSMN5R5-60YS.115	6	600	Digi-Key	568-4973-1-ND			-	-
35	Q17	Transistor, PNP, 40V, 0.2A, SOT-23	Y	Central Semiconductor	CMPT3906 LEAD FREE	1	100	Arrow	CMPT3906 LEAD FREE			-	-
36	R2, R29	RES, 10.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060310K0FKEA	2	200	Digi-Key	541-10.0KHCT-ND	Farnell	1151638	-	-
37	R3	RES, 100k ohm, 1%, 0.125W, 0805	Y	Vishay-Dale	CRCW0805100K0FKEA	1	100	Digi-Key	541-100KCT-ND	Farnell	1469860	-	-
38	R4	RES, 20 ohm, 5%, 0.125W, 0805	Y	Vishay-Dale	CRCW080520R0JNEA	1	100	Digi-Key	541-20ACT-ND	Farnell	1514557	-	-
39	R5	RES, 2.49k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04022K49FKED	1	100	Digi-Key	541-2.49KLCT-ND	Farnell	1156941	-	-
40	R6	RES, 0 ohm, 5%, 0.063W, 0402	Y	Vishay-Dale	CRCW0402000020ED	1	100	Digi-Key	541-0.0JCT-ND	Farnell	1158242	-	-
41	R7	RES, 3.00 ohm, 1%, 0.25W, 1206	Y	Yageo America	RC1206FR-073RL	1	100	Digi-Key	311-3.00FRCT-ND	Arrow	CRCW12063R00FKEA	-	-
42	R8, R12	RES, 499 ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW0402499RFKED	2	200	Digi-Key	541-499LCT-ND	Farnell	1151324	-	-
43	R9	RES, 1.69k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04021K69FKED	1	100	Digi-Key	541-1.69KLCT-ND	Farnell	1156885	-	-
44	R10	RES, 1.00k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04021K00FKED	1	100	Digi-Key	541-1.00KLCT-ND	Farnell	1469662	-	-
45	R11	RES, 100 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100RFKEA	1	100	Digi-Key	541-100HCT-ND	Farnell	1469752	-	-
46	R13	RES, 24k ohm, 5%, 0.063W, 0402	Y	Vishay-Dale	CRCW040224K0JNEA	1	100	Digi-Key	541-24KJCT-ND	Arrow	CRCW040224K0JNEA	-	-
47	R14, R15, R26, R27	RES, 10.0k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW040210K0FKED	4	400	Digi-Key	541-10.0KLCT-ND	Farnell	1469669	-	-
48	R16, R28	RES, 5.1k ohm, 5%, 0.125W, 0805	Y	Panasonic	ERJ-6GEYJ512V	2	200	Digi-Key	P5.1KACT-ND	Arrow	ERJ-6GEYJ512V	-	-
49	R17, R18	RES, 10.0 ohm, 1%, 1W, 1218	Y	Vishay-Dale	CRCW121810R0FKEK	2	200	Digi-Key	RCL10.0ACT-ND			-	-
50	R19, R31	RES, 10 ohm, 5%, 0.063W, 0402	Y	Vishay-Dale	CRCW040210R0JNEA	2	200	Digi-Key	541-10JCT-ND	Farnell	1514665	-	-
51	R20	RES, 30.1k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW040230K1FKED	1	100	Digi-Key	541-30.1KLCT-ND	Farnell	1156982	-	-
52	R22	RES, 100 ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW0402100RFKED	1	100	Digi-Key	541-100LCT-ND	Farnell	1150766	-	-
53	R23	RES, 4.99k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04024K99FKED	1	100	Digi-Key	541-4.99KLCT-ND	Farnell	1157010	-	-
54	R24	RES, 1.82k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04021K82FKED	1	100	Digi-Key	541-1.82KLCT-ND	Farnell	1158290	-	-
55	R25	RES, 7.87k ohm, 1%, 0.063W, 0402	Y	Vishay-Dale	CRCW04027K87FKED	1	100	Digi-Key	541-7.87KLCT-ND	Farnell	1157052	-	-

56	R30	RES, 1.0k ohm, 5%, 0.063W, 0402	Y	Vishay-Dale	CRCW04021K00JNED	1	100	Digi-Key	541-1.0KJCT-ND	Farnell	1514656	-	-
57	T1	SMT Current Sense Transformer	Y	Pulse Engineering	P8209NL	1	100					-	-
58	T2		Y	CoilCraft	MA5519-AL	1	100					-	-
59	TP1, TP2, TP3, TP7, TP8	PCB Pin, TH	Y	Mill-Max	3125-2-00-34-00-00-08-0	5	500					-	-
60	TP4, TP5	PCB Pin, Swage Mount, TH	Y	Mill-Max	3231-2-00-34-00-00-08-0	2	200	Digi-Key	3231-200340000080-ND			-	-
61	U1, U2, U3, U4, U7, U8	Tiny 7A MOSFET Gate Driver, 6-pin LLP, Pb-Free	Y	Texas Instruments	LM5112Q1SDX/NOPB	6	600	Digi-Key	LM5112Q1SDX/NOPB-ND				
62	U5	100V Full-Bridge PWM Controller with Integrated MOSFET Drivers	RoHS Compliant	Texas Instruments	LM5045SQ/NOPB	1	100						
63	U6	ISOPro Low-Power Dual-Channel Digital Isolator	Y	Texas Instruments	ISO7420FEDR	1	100	Mouser	595-ISO7420FED				
64	U9	Low Input Current, Hight CTR Photocoupler	Y	California Eastern Laboratories	PS2811-1-M-A	1	100	Digi-Key	PS2811-1-M-A-ND	Arrow	PS2811-1-M-A	-	-
65	U10	Single RRIO, High output Current and High Capacitive Load Op Amp	O	Texas Instruments	LM8261M5	1	100						
66	U11	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23, Pb-Free	Y	Texas Instruments	LM4040BIM3-2.5/NOPB	1	100	Digi-Key	LM4040BIM3-2.5TR-ND	Digi-Key	LM4040BIM3-2.5CT-ND		