

## PMP4299\_REVA BOM

RefDes	Value	Description	Size	Part Number	Mfr	AREA
C1	2.2uF	Capacitor, Ceramic, 100V, X7R, 20%	1210	Std	Vishay	
C2	2.2uF	Capacitor, Ceramic, 100V, X7R, 20%	1210	Std	Vishay	
C5	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	
C6	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	
C7	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	
C8	0.33uF	Capacitor, Ceramic, 50V, X5R, 15%	0805	Std	TDK	
C9	270pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	
C10	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std	
C11	270pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	
C12	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std	
C13	0.1uF	Capacitor, Ceramic, 25V, X7R, 15%	0603	std	std	
C14	270pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	
C15	470pf	Capacitor, Ceramic, 50V, COG, 15%	0603	std	std	
C16	330uF	CAP 330UF 63V ELECT FC RADIAL		EEU-FC1J331L	Panasonic	
C17	2.2uF	Capacitor, Ceramic, 100V, X7R, 15%	1210	C3225X7R2A225MT	TDK	
C18	2.2uF	Capacitor, Ceramic, 100V, X7R, 15%	1210	C3225X7R2A225MT	TDK	
C19	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	
C20	270pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std	
C21	0.1uF	Capacitor, Ceramic, 25V, X7R, 15%	0603	std	std	
C22	1uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Std	
C23	0.33uF	Capacitor, Ceramic, 50V, X5R, 15%	0805	Std	TDK	
C24	2.2uF	Capacitor, Ceramic, 10V, X7R, 20%	0603	GRM39X7R225K10H539	Murata	
C25	2.2uF	Capacitor, Ceramic, 10V, X7R, 20%	0603	GRM39X7R225K10H539	Murata	
C26	0.33uF	Capacitor, Ceramic, 50V, X5R, 15%	0805	Std	TDK	
C27	330uF	CAP 330UF 63V ELECT FC RADIAL		EEU-FC1J331L	Panasonic	
C28	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	
C29	100uF	CAP 100UF 100V ELECT FC RADIAL		EEU-FC2A101L	Panasonic	

C30	470pf	Capacitor, Ceramic, 50V, COG, 15%	0603	std	std
C31	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
C32	0.33uF	Capacitor, Ceramic, 50V, X5R, 15%	0805	Std	TDK
C33	NA	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
C34	NA	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
D1	STPS5H100	Diode, Schottky, 5.0-A,100-V,	TO-252AA	STPS5H100	ST
D2	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D6	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D7	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D9	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D10	STPS5H100	Diode, Schottky, 5.0-A,100-V,	TO-252AA	STPS5H100	ST
D30	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D31	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D32	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D33	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D34	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D35	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D36	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D37	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D38	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D39	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D40	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
D41	MURA120T3	DIODE ULTRA FAST 1A 200V SMA	403D	MURA120T3	On Semi
J1	25630801RP2	Header, 2mm, 8-pin-F	0.100 x 0.711 ir	25630801RP2	NorComp
J3	25630801RP2	Header, 2mm, 8-pin-F	0.100 x 0.711 ir	25630801RP2	NorComp
J4	25630801RP2	Header, 2mm, 8-pin-F	0.100 x 0.711 ir	25630801RP2	NorComp
J5	25630801RP2	Header, 2mm, 8-pin-F	0.100 x 0.711 ir	25630801RP2	NorComp
J6	640497	Connector, 2-Pin (Mates with Amp#640517)	0.755 x 0.330 ir	640497	AMP
J7	25630801RP2	Header, 2mm, 8-pin-F	0.100 x 0.711 ir	25630801RP2	NorComp
L1	47uH	CWP2210C-470MB	Choke,47uH		Sunlord
L2	47uH	CWP2210C-470MB	Choke,47uH		Sunlord
R1	10	Resistor, Chip, 1/16W, 1%	0603	std	std

R2	10	Resistor, Chip, 1/16W, 1%	0603	std	std
R3	OPEN	Resistor, Chip, 1/16W, 1%	0603	std	std
R4	OPEN	Resistor, Chip, 1/16W, 1%	0603	std	std
R5	10	Resistor, Chip, 1/16W, 1%	0603	std	std
R6	220K	Resistor, Chip, 1/16W, 1%	0603	std	std
R7	3.9	Resistor, Chip, 1/16W, 1%	0603	std	std
R8	10K	Resistor, Chip, 1/16W, 1%	0603	std	std
R10	1K	Resistor, Chip, 1/16W, 1%	0603	std	std
R11	3.9	Resistor, Chip, 1/16W, 1%	0603	std	std
R12	0.015	Resistor, 1/2W, 5%	1210	Std	Std
R13	10K	Resistor, Chip, 1/16W, 1%	0603	std	std
R16	2.2K	Resistor, Chip, 1/16W, 1%	0603	std	std
R17	100K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R18	22K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R20	2.2K	Resistor, Chip, 1/16W, 1%	0603	std	std
R21	100K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R22	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R23	390K	Resistor, Chip, 1/16W, 1%	0603	std	std
R24	2.2K	Resistor, Chip, 1/16W, 1%	0603	std	std
R25	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R26	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R27	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R28	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R29	optional	Resistor, Chip, 1/16W, 1%	0603	std	std
R30	0	Resistor, Chip, 1/16W, 1%	0603	std	std
R31	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R32	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R33	0.015	Resistor, 1/2W, 5%	1210	Std	Std
R34	optional	Resistor, Chip, 1/16W, 1%	0603	std	std
R35	390K	Resistor, Chip, 1/16W, 1%	0603	std	std
R36	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R37	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay

R38	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R39	100	Resistor, Chip, 1/16W, 1%	0603	std	std
R41	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R42	100	Resistor, Chip, 1/16W, 1%	0603	std	std
R43	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R48	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R49	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R51	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R52	22K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R53	220K	Resistor, Chip, 1/16W, 1%	0603	std	std
R54	10	Resistor, Chip, 1/16W, 1%	0603	std	std
R55	1K	Resistor, Chip, 1/16W, 1%	0603	std	std
R56	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R57	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R58	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R59	100K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R60	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R61	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R62	2.2K	Resistor, Chip, 1/16W, 1%	0603	std	std
R63	100K	Resistor, Chip, 1/10W, 1%	0805	Std	Std
R64	0	Resistor, Chip, 1/16W, 1%	0603	std	std
R65	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R66	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R67	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R68	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R70	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R72	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R73	51K	Resistor, Chip, 1/16W, 1%	0603	std	std
R74	51K	Resistor, Chip, 1/16W, 1%	0603	std	std
R86	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R87	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R90	100K	Resistor, Chip, 1/16W, 1%	0603	std	std

R91	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R93	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R94	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R105	0	Resistor, Chip, 1/16W, 1%	0603	std	std
R106	0	Resistor, Chip, 1/16W, 1%	0603	std	std
R114	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R115	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R116	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R117	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R118	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R119	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R120	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R121	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R122	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R123	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R124	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R125	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R126	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R127	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R128	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R129	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R130	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R131	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R133	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R134	100K	Resistor, Chip, 1/16W, 1%	0603	std	std
R135	5	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
R137	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R138	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R139	200K	Resistor, Chip, 1/16W, 1%	0603	std	std
R148	10K	Resistor, Chip, 1/16W, 1%	0603	std	std
R152	10K	Resistor, Chip, 1/16W, 1%	0603	std	std
U1,U3	TLC5960DA	IC, 8 Channels Constant Current FET Driver with Headroom Voltage CTI			

U2	TPS40210DGQ	TPS40210	IC, 4.5V-52V I/IT1	DGQ10
U4	TPS40210DGQ	TPS40210	IC, 4.5V-52V I/IT1	DGQ10
Q1	IPB79CN10N	IPB79CN10N	Transistor, NFE Infineon	TO-263AB
Q9	IPB79CN10N	IPB79CN10N	Transistor, NFE Infineon	TO-263AB
Q2	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q5	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q11	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q12	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q15	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q16	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q18	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q19	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q20	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q21	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q22	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q23	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q24	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q25	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q26	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q27	FQT4N20L	MOSFET N-CH 200V 0.85A SOT-223	SOT223-4 Fairchild	SOT223-4
Q4	MMBT3906	MMBT3906	Bipolar, PNP, 6 NXP	SOT23
Q8	MMBT3906	MMBT3906	Bipolar, PNP, 6 NXP	SOT23
Q3	MMBT3904	MMBT3904	Bipolar, NPN, 4 NXP	SOT23
Q10	MMBT3904	MMBT3904	Bipolar, NPN, 4 NXP	SOT23

## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

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

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI 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.

Reproduction of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

TI products are not authorized for use in safety-critical applications (such as life support) where a failure of the TI product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use. Buyers represent that they have all necessary expertise in the safety and regulatory ramifications of their applications, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of TI products in such safety-critical applications, notwithstanding any applications-related information or support that may be provided by TI. Further, Buyers must fully indemnify TI and its representatives against any damages arising out of the use of TI products in such safety-critical applications.

TI products are neither designed nor intended for use in military/aerospace applications or environments unless the TI products are specifically designated by TI as military-grade or "enhanced plastic." Only products designated by TI as military-grade meet military specifications. Buyers acknowledge and agree that any such use of TI products which TI has not designated as military-grade is solely at the Buyer's risk, and that they are solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI products are neither designed nor intended for use in automotive applications or environments unless the specific TI products are designated by TI as compliant with ISO/TS 16949 requirements. Buyers acknowledge and agree that, if they use any non-designated products in automotive applications, TI will not be responsible for any failure to meet such requirements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

<b>Products</b>		<b>Applications</b>	
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>	Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>	Automotive	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
DLP® Products	<a href="http://www.dlp.com">www.dlp.com</a>	Communications and Telecom	<a href="http://www.ti.com/communications">www.ti.com/communications</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
Clocks and Timers	<a href="http://www.ti.com/clocks">www.ti.com/clocks</a>	Consumer Electronics	<a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Energy	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	Space, Avionics & Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
RF/IF and ZigBee® Solutions	<a href="http://www.ti.com/lprf">www.ti.com/lprf</a>	Video and Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
		Wireless	<a href="http://www.ti.com/wireless-apps">www.ti.com/wireless-apps</a>