

PMP7410 Rev D Bill Of Materials

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
IPCB1	1		Printed Circuit Board		PMP7410	Any
C1, C12	2	10pF	CAP, CERM, 100V, +/-10%, X7R, 0603	0603	STD	STD
C2	1	0.22uF	CAP, Film, 0.22uF, 630V, +/-10%, TH	B32922 12.5mm	B32922C3224K	EPCOS Inc
C3	1	0.047uF	CAP, CERM, 0.047uF, 630V, +/-10%, X7R, 1210	1210	GRM32DR72J473KW01L	MuRata
C4	1	100uF	CAP, AL, 100uF, 450V, +/-20%, TH	Cap 22x25mm	ESMQ451VSN101MP25S	Nippon Chemi-Con
C5	1	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805	C2012X7R2A104K	TDK
C6, C17, C24, C26, C31	5	0.1uF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
C7	1	1000uF	CAP, AL, 1000uF, 16V, +/-20%, 0.049 ohm, TH	12.5x15mm	EKY-160ELL102MK15S	Nippon Chemi-Con
C8, C9, C10	3	10uF	CAP, CERM, 10uF, 16V, +/-10%, X5R, 1206	1206	C3216X5R1C106KT	TDK
C11, C21, C23, C25, C27	5	1uF	CAP, CERM, 25V, +/-10%, X7R, 0603	0603	STD	STD
C13, C16, C28	3	1000pF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
C14	1	2200pF	CAP, CERM, 2200pF, 250V, +/-20%, E, Cap, 7x12x9 mm	Cap, 7x12x9 mm	DE1E3KX222MA4BL01	MuRata
C15	1	0.47uF	CAP, CERM, 25V, +/-10%, X7R, 0603	0603	STD	STD
C18	1	100uF	CAP, AL, 100uF, 25V, +/-20%, 30 ohm, SMD	6.3x7.7	EEH2C1E101XP	Panasonic
C19	1	220pF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
C20, C30	2	0.01uF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
C22	1	330pF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
C29	1	0.022uF	CAP, CERM, 50V, +/-10%, X7R, 0603	0603	STD	STD
D1, D5, D8, D9, D11, D12, D13, D14, D16	9	100V	Diode, Switching, 100V, 0.2A, SOD-123	SOD-123	MMSD4148T1G	ON Semiconductor
D2, D10	2	10V	Diode, Zener, 10V, 500mW, SOD-123	SOD-123	MMSZ5240B-7-F	Diodes Inc.
D3	1	0.88V	DIODE SUPER FAST 100V 1A SMA	SMA	ES1B-13-F	Diodes Inc
D4	1	75V	Diode, Switching, 75V, 0.3A, SOT-23	SOT-23	BAV99-7-F	Diodes Inc.
D6	1	91V	Diode, Zener, 91V, 500mW, SOD-123	SOD-123	MMSZ5270BT1G	ON Semiconductor
D7	1	30V	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23	BAT54S-7-F	Diodes Inc.
D15	1	3.6V	Diode, Zener, 3.6V, 500mW, SOD-123	SOD-123	MMSZ4685-V	Vishay-Semiconductor
F1	1		Fuse, 2A, 250V, TH	TR5 fuse 8.5mm DIA	37212000001	Littelfuse
J1	1		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	On-Shore Technology
L1	1	10uH	Inductor, Shielded E Core, Ferrite, 10uH, 23.4A, 0.00186 ohm, SMD	SER29xx	SER2915H-103KL	Coilcraft
L2	1	1mH	Inductor, Shielded Drum Core, Ferrite, 1mH, 0.11A, 16.3 ohm, SMD	LPS4414	LPS4414-105MLB	Coilcraft
Q1, Q8	2	0.08V	TRANSISTOR NPN 100V 1A SOT-89	SOT-89	FCX493TA	Diodes Inc
Q2, Q5, Q11	3	1.6V	Transistor, PNP, 60V, 0.8A, SOT-23	SOT-23	MMBT2907A	Fairchild Semiconductor
Q3, Q10	2	60V	MOSFET, N-CH, 60V, 19A, SON 5x6mm	SON 5x6mm	CSD18531Q5A	Texas Instruments
Q4	1	800V	MOSFET N-CH 800V 3A DPAK	DPAK	STD4NK80ZT4	STMicroelectronics
Q6	1	0.4V	Transistor, NPN, 400V, 1A, TO-92	TO-92	PHE13003A, 126	NXP Semiconductor
Q7	1	0.3V	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23	MMBT2222A	Fairchild Semiconductor
Q9	1	800V	MOSFET N-CH 800V 5.2A D2PAK	DDPAK	STB7NK80ZT4	STMicroelectronics
Q12	1	60V	MOSFET, N-CH, 60V, 0.17A, SOT-23	SOT-23	2N7002-7-F	Diodes Inc.
R1, R13	2	2k	RES, 1%, 0.25W, 1206	1206	STD	STD
R2	1	10k	RES, 1%, 0.25W, 1206	1206	STD	STD
R3, R4, R19, R28, R34, R37	6	10k	RES, 1%, 0.1W, 0603	0603	STD	STD
R5, R6, R9, R10	4	499k	RES, 1%, 0.25W, 1206	1206	STD	STD
R7	1	200k	RES, 1%, 1W, 2512	2512	STD	STD
R8	1	3.3	RES, 1%, 0.1W, 0603	0603	STD	STD
R11	1	51.1	RES, 1%, 0.1W, 0603	0603	STD	STD
R12, R18	2	1MEG	RES, 1%, 0.25W, 1206	1206	STD	STD
R14, R15, R16	3	0.02	RES, 1%, 1W, 2512	2512	STD	STD
R17, R35	2	3.01k	RES, 1%, 0.1W, 0603	0603	STD	STD
R20, R40	2	0	RES, 1%, 0.1W, 0603	0603	STD	STD
R21	1	0.15	RES, 1%, 1W, 2010	2010	STD	STD
R22	1	12.4k	RES, 1%, 0.1W, 0603	0603	STD	STD
R23	1	10	RES, 1%, 0.1W, 0603	0603	STD	STD
R24	1	20k	RES, 1%, 0.1W, 0603	0603	STD	STD
R25, R27, R30, R32, R36, R41, R43	7	1k	RES, 1%, 0.1W, 0603	0603	STD	STD
R26	1	80.6k	RES, 1%, 0.1W, 0603	0603	STD	STD
R29	1	84.5k	RES, 1%, 0.1W, 0603	0603	STD	STD
R31, R38	2	100k	RES, 1%, 0.1W, 0603	0603	STD	STD
R33	1	2.37k	RES, 1%, 0.1W, 0603	0603	STD	STD
R39	1	3.24k	RES, 1%, 0.1W, 0603	0603	STD	STD
R42	1	25.5k	RES, 1%, 0.1W, 0603	0603	STD	STD
R100	1	2.61k	RES, 1%, 0.1W, 0603	0603	STD	STD
T1	1	700uH	Transformer, 700 uH, TH	33.02x24.13x31.75 mm	RLT1-1055	Renco Electronics
T2	1	300uH	Gate Drive Transformer, 300uH, TH	13.97x13.3x13.97mm	G044052LF	GCI Technologies
TP1	1	Red	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint	5010	Keystone
TP2	1	Black	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint	5011	Keystone
TP3, TP5	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
TP4, TP6	2	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone
U1	1		Advanced Active Clamp PWM Controller with Current-Mode Control, -40 to +125 degC, 20-pin TSSOP (PW), Green (RoHS & no Sb/Br)	PW0020A	UCC2897APWR	Texas Instruments
U2	1		DUAL D-TYPE POSITIVE-EDGE-TRIGGERED FLIP-FLOPS WITH CLEAR AND PRESET, PW0014A	PW0014A	SN74AHCT74PW	Texas Instruments
U2, U4	2		OptoCoupler, Phototransistor, 80-160%, SSOP-4	7x2.12x2.6mm	VOS617A-7X001T	Vishay-Semiconductor
U3	1		PRECISION PROGRAMMABLE REFERENCE, DBZ0003A	DBZ0003A	TL431AIDBZ	Texas Instruments
U6	1		DUAL OPERATIONAL AMPLIFIERS WITH INTERNAL REFERENCE, D0008A	D0008A	TL103WAID	Texas Instruments

Notes:

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