

PMP10645 REV rev2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		PMP10645	Any	Printed Circuit Board	
C1, C9, C19, C26, C31, C41	6	1uF	C2012X7R1C105K	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0805	0805
C2, C18	2	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C3, C4, C7, C8, C12, C13, C14, C15	8	4.7uF	CGA4J1X7R1E475M125AC	TDK Corporation	CAP, CERM, 4.7uF, 25V, +/-20%, X7R, 0805	0805 (2012 Metric)
C5, C6, C10, C11	4	1000pF	VJ1210Y102KXGAT5Z	Vishay-Vitramon	Ceramic, X7R, 1000V, 10%	1210
C16	1	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C17	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0603	0603
C20	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000pF, 25V, +/-10%, X7R, 0603	0603
C21	1	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
C22, C23	2	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	1206
C24	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	1210
C25	1	0.1uF	GCM188R71H104KA57B	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
D1, D4, D5, D8	4	100V	BAT46WH,115	NXP Semiconductor	Diode, Schottky, 100V, 0.25A, SOD-123F	SOD-123F
D9	1	0.58V	SDM10U45-7-F	Diodes Inc.	Diode, Schottky, 45V, 0.1A, SOD-523	SOD-523
D11, D12	2	75V	1N4148X-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.3 A, SOD-523	SOD-523
drv1, drv2, GND, GND2, source1, source2, TE1, TE2, VCC_B1, VCC_T1, VDD1, VEE_B1, VEE_T1, Vin1	14	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
FB1, SW1	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
J1, J2, J3	3		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
Q14, Q24	2	0.2V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23
R1, R11	2	100	ERJ-6GEYJ101V	Panasonic	RES, 100, 5%, 0.125 W, 0805	0805
R2, R7	2	4.02k	CRCW08054K02FKEA	Vishay-Dale	RES, 4.02k ohm, 1%, 0.125W, 0805	0805
R3, R10	2	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R4, R15	2	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.125 W, 0805	0805
R5, R16	2	2.0	CRCW06032R00JNEA	Vishay-Dale	RES, 2.0, 5%, 0.1 W, 0603	0603
R6, R8	2	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00k ohm, 1%, 0.125W, 0805	0805
R9	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2k ohm, 1%, 0.1W, 0603	0603
R12	1	340k	CRCW0603340KFKEA	Vishay-Dale	RES, 340k ohm, 1%, 0.1W, 0603	0603
R13	1	49.9k	CRCW060349KFKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R14	1	82.0k	RC0603FR-0782KL	Yageo America	RES, 82.0 k, 1%, 0.1 W, 0603	0603
R17	1	4.42k	CRCW06034K42FKEA	Vishay-Dale	RES, 4.42k ohm, 1%, 0.1W, 0603	0603
R18	1	25.5k	ERA-3AEB2552V	Panasonic	RES, 25.5 k, 0.1%, 0.1 W, 0603	0603
R29, R49	2	5.10k	RC0603FR-075K1L	Yageo America	RES, 5.10 k, 1%, 0.1 W, 0603	0603
R31, R32, R41, R42	4	2.49k	RC0603FR-072K49L	Yageo America	RES, 2.49 k, 1%, 0.1 W, 0603	0603
T1	1		750314624_1	Würth		EF20 through-hole extended rail
U1, U4	2		PS9117A-F3-AX	California Eastern Laboratories	High CMR, 10 Mbps Open Collector Output Type High-Speed Photocoupler, 3.75 kV, SOP-5	4.4x3.4mm SO-5

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U2, U5	2		SM74101SDX/NOPB	Texas Instruments	Tiny 7A MOSFET Gate Driver, NGG0006A	NGG0006A
U3	1		LM5017MR	Texas Instruments		PSOP-8
U6, U7	2		LM431CCM3X	Texas Instruments	Adjustable Precision Zener Shunt Regulator, 3-pin SOT-23	MF03A
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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